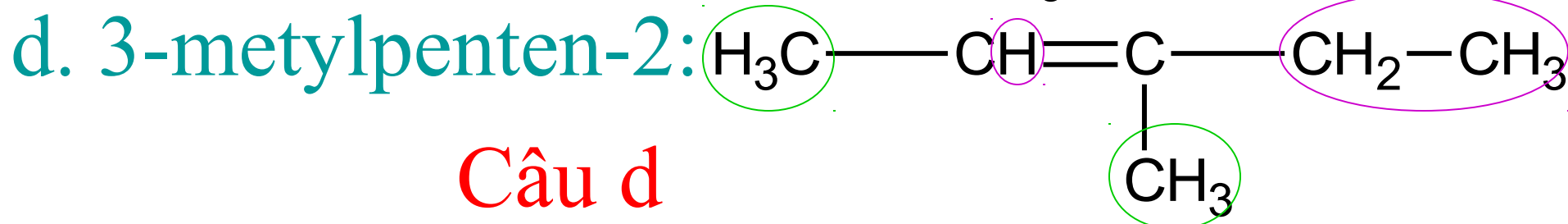
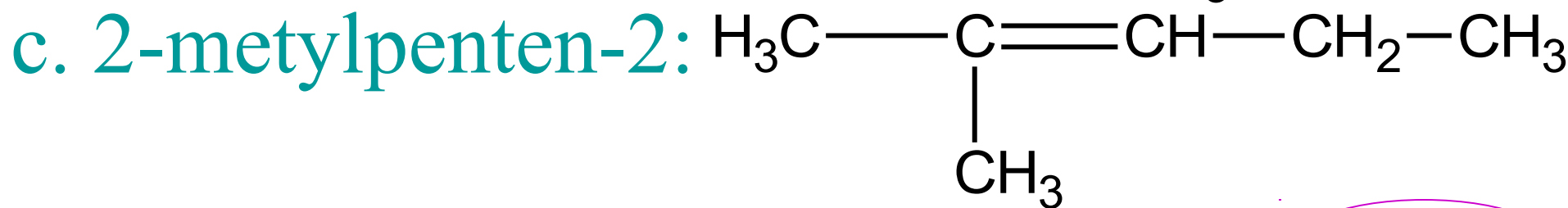
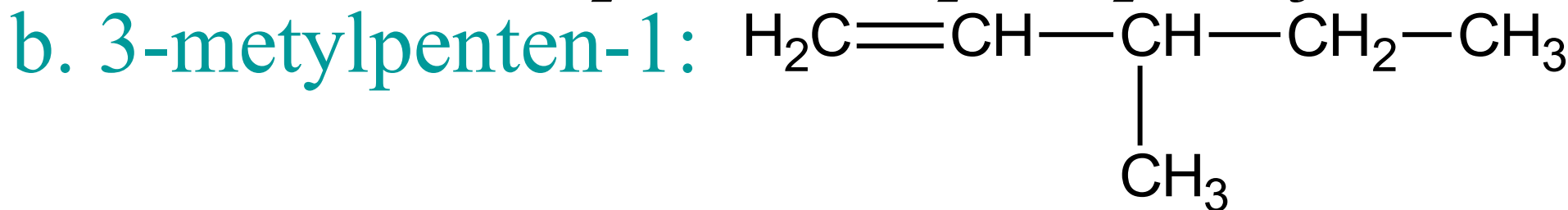
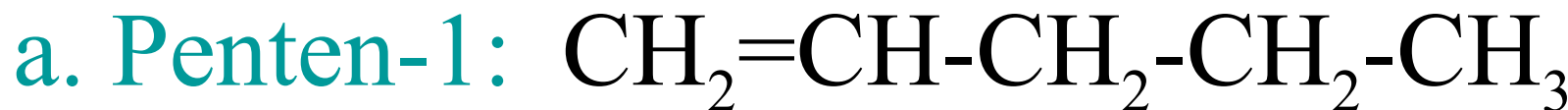


# Bài Tập: Chương I

1. Buten-1(X); Buten-2(Y): Đ.p hình học?

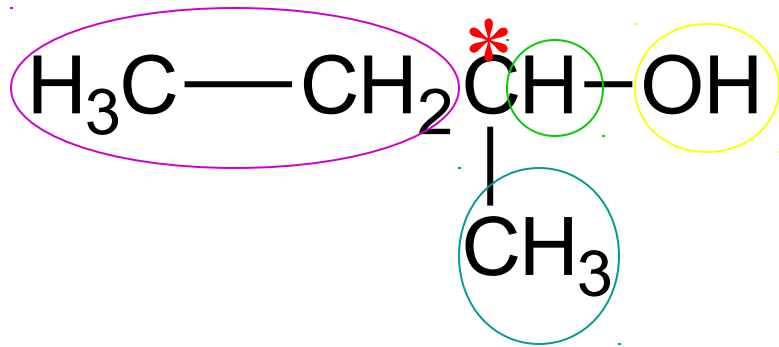
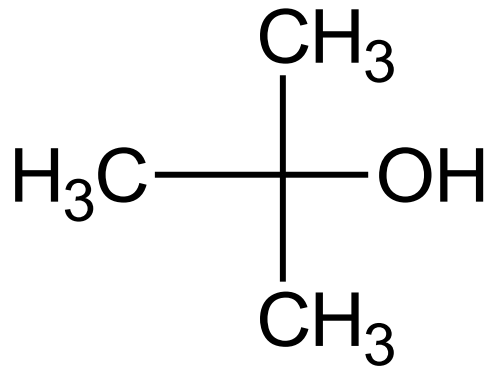


2. Chất có đp hình học?



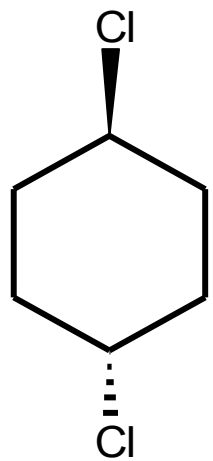
Câu d

3. Rượu t-butylic, và s-butylic: Đp quang h?

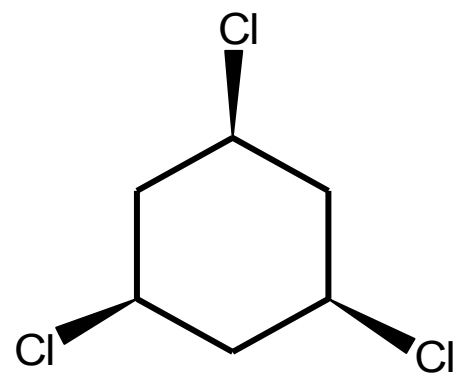


câu c

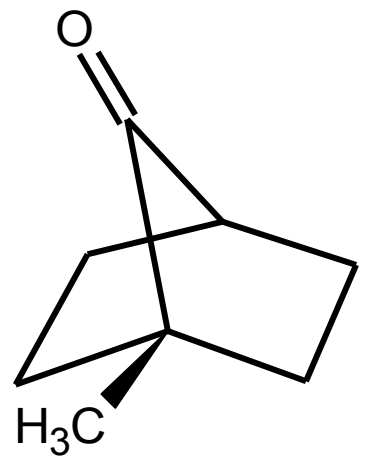
4. Hợp chất có 2C\*?



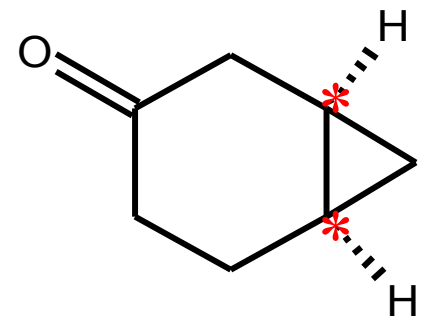
a



b



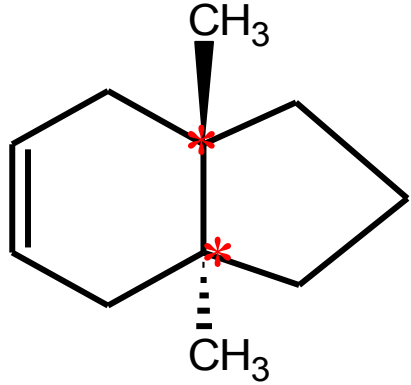
c



d

Câu d

5. Số C\* của hợp chất dưới đây là:



- a. 1      b. 2      c. 3      d. 4

Câu b

6. Axit tartic:  $\text{HOOC}-\text{CHOH}-\text{CHOH}-\text{COOH}$  có bao nhiêu đp quang học?

Câu d

- a. 0      b. 2      c. 4      d. 3

Có 2C\* tương đương  $\Rightarrow$  Có 3 đp quang học

7. Axit citric:  $\text{HOOC}-\text{CH}_2-\text{CH}(\text{COOH})-\text{CH}_2-\text{COOH}$  Đp qh?

Câu a

- a. 0      b. 2      c. 4      d. 3

8. Trong các chất: (1):  $\text{CH}_3\text{-CHOH-CH}_3$   
(2):  $\text{CH}_3\text{-}\overset{*}{\text{C}}\text{HOH-CH}_2\text{-CH}_3$   
(3):  $\text{CH}_3\text{-}\overset{*}{\text{C}}\text{NH}_2\text{-COOH}$   
(4):  $\text{CH}_2\text{OH-CHOH-CH}_2\text{OH}$

Chất có tính quang hoạt là: **Câu c**

- a. (2)      b. (3)      c. (2) và (3)      d. (4)

9. Chất có tính quang hoạt?

- a. 1,2-dibromopropan  $\text{CH}_2\text{Br-CHBr-CH}_3$   
b. 2,2-Dibromopropan:  $\text{CH}_3\text{-C}(\text{Br})_2\text{-CH}_3$   
c. 1,3-Dibromopropan:  $\text{CH}_2\text{Br-CH}_2\text{-CH}_2\text{Br}$   
d. 2-Bromopropan:  $\text{CH}_3\text{-CHBr-CH}_3$

**Câu a**

10. Chất có đồng phân lập thể?

(I): Hexen-2 (II): Hexin-1

(III): etylen glycol: (IV): 2,3-butadiol:

a. II và IV

b. I và IV

c. II và III

d. III và IV

$\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_2\text{-CH}_3$  Đp hình học

$\text{CH}\equiv\text{C-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3$

$\text{CH}_2\text{OH-CH}_2\text{OH}$

$\text{CH}_3\text{-}\overset{*}{\text{C}}\text{HOH-}\overset{*}{\text{C}}\text{HOH-CH}_3$  Đp quang học

Câu b

11. Chất có đồng phân lập thể?

Alanin(A):  $\text{CH}_3\text{-CHNH}_2\text{-COOH}$  Đp qh

Glixerin(B):  $\text{CH}_2\text{OH-CHOH-CH}_2\text{OH}$

Axit lactic(C):  $\text{CH}_3\text{-CHOH-COOH}$  Đp qh

Penten-1(D):  $\text{CH}_2\text{=CH-CH}_2\text{-CH}_2\text{-CH}_3$

Penten-2( E ):  $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_3$  Đp hh

a. Cả 5 chất

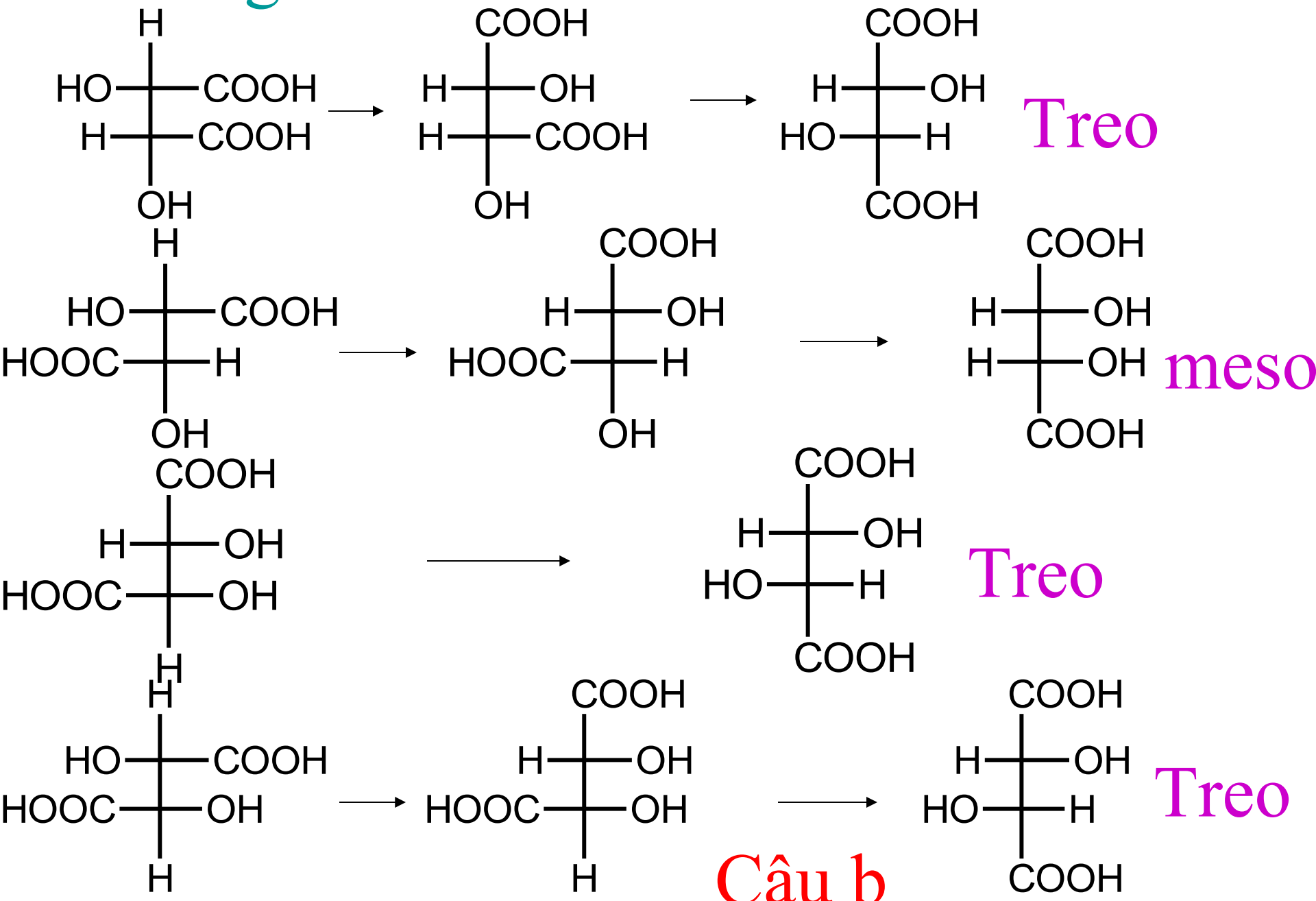
b. (A), (B), (C)

c. (A), (B), (C), (E)

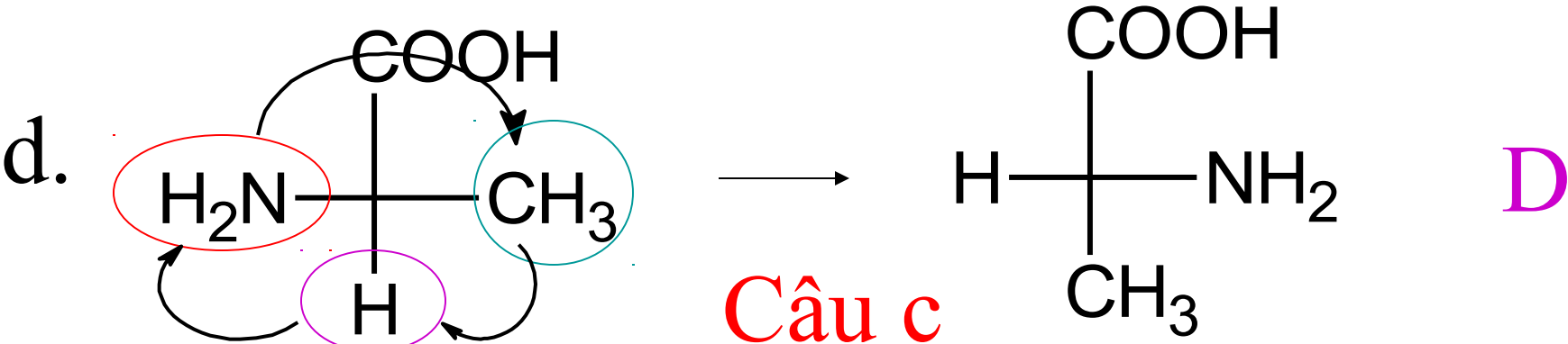
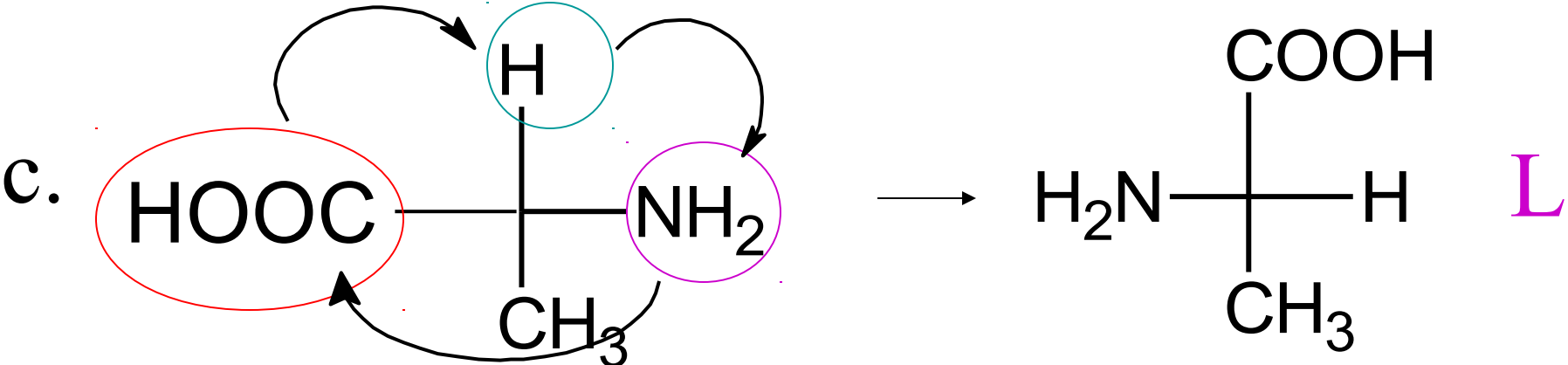
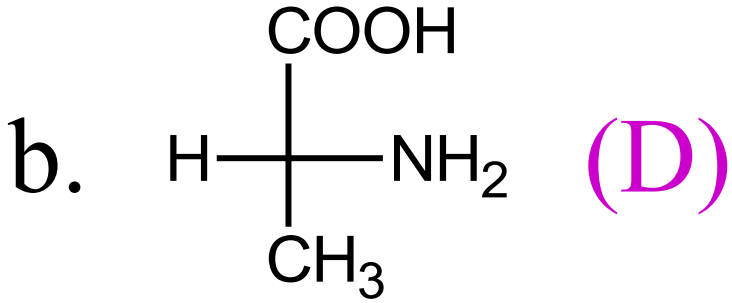
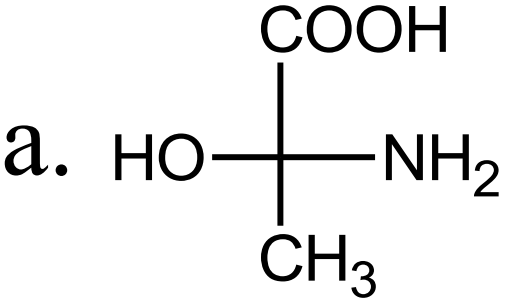
d. (A), (C), (E)

Câu d

# 12. Công thức của axit meso tartic là:



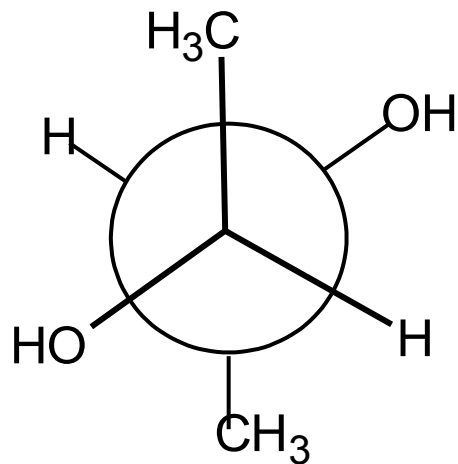
# 13. Công thức L-Alanin:



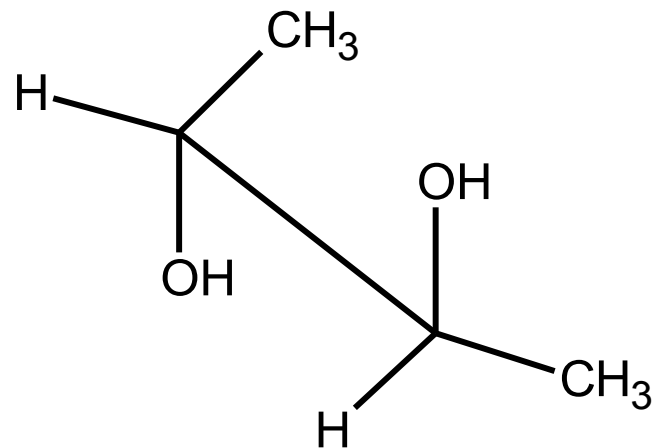


# 14. Hợp chất meso?

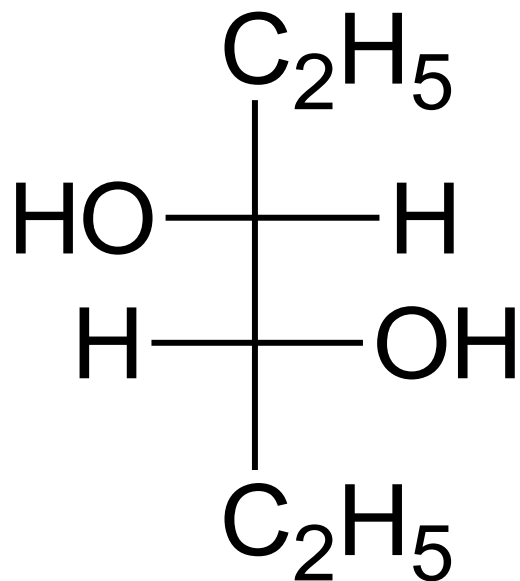
a.



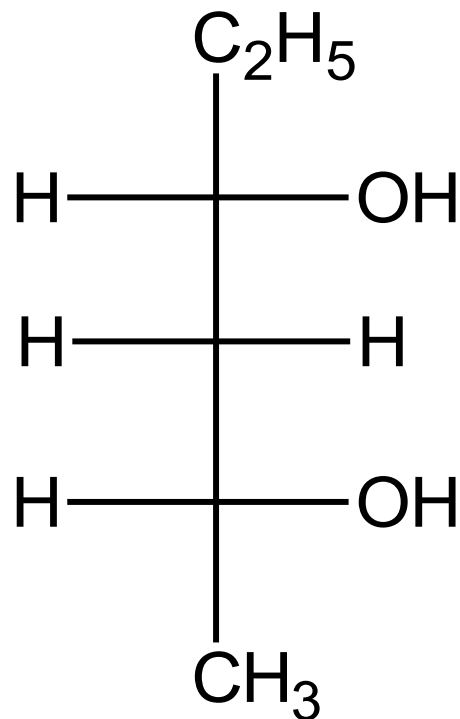
b.



c.

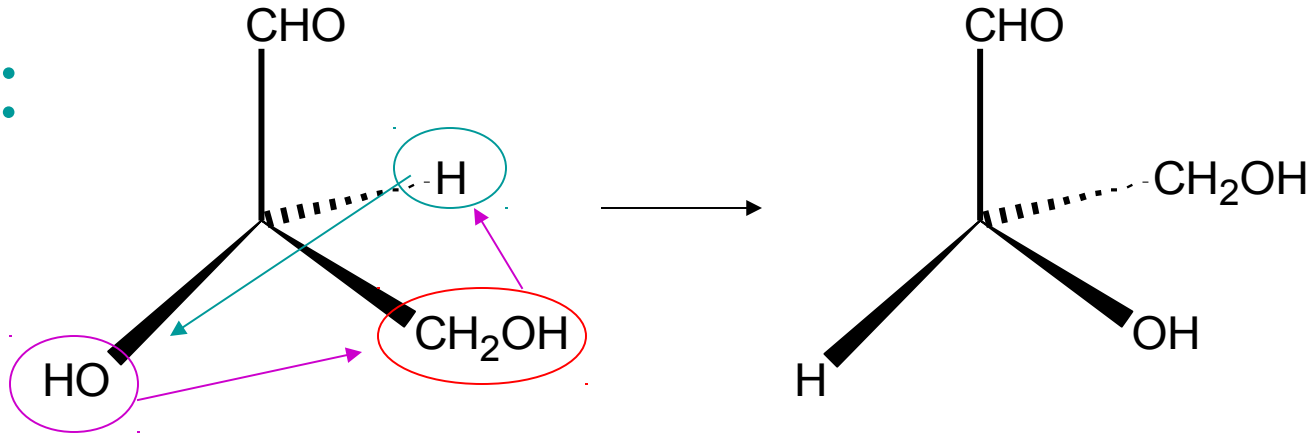


d.



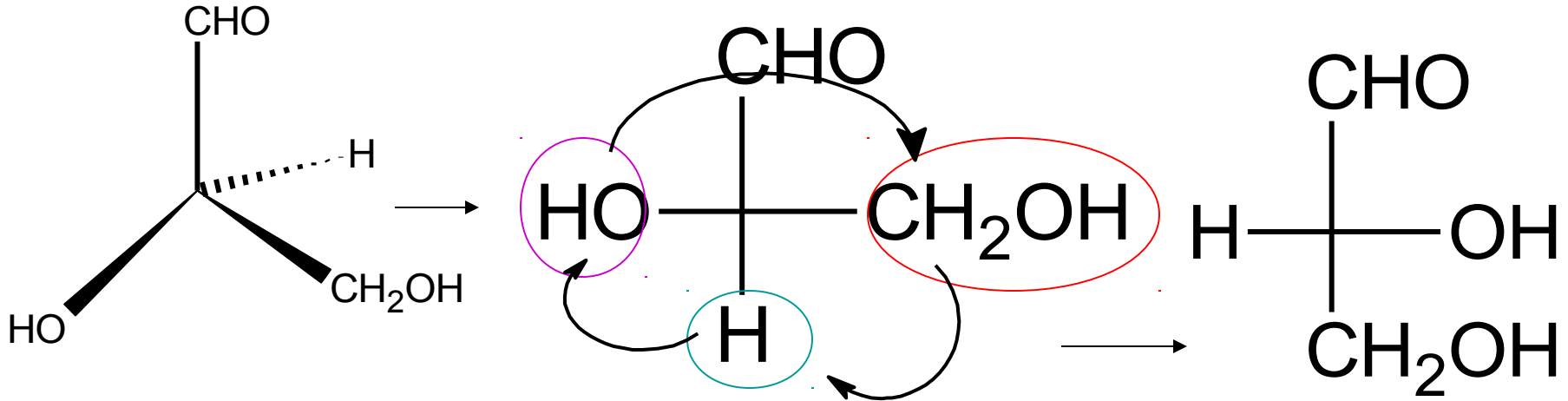
Câu a

# 15. Gọi tên:



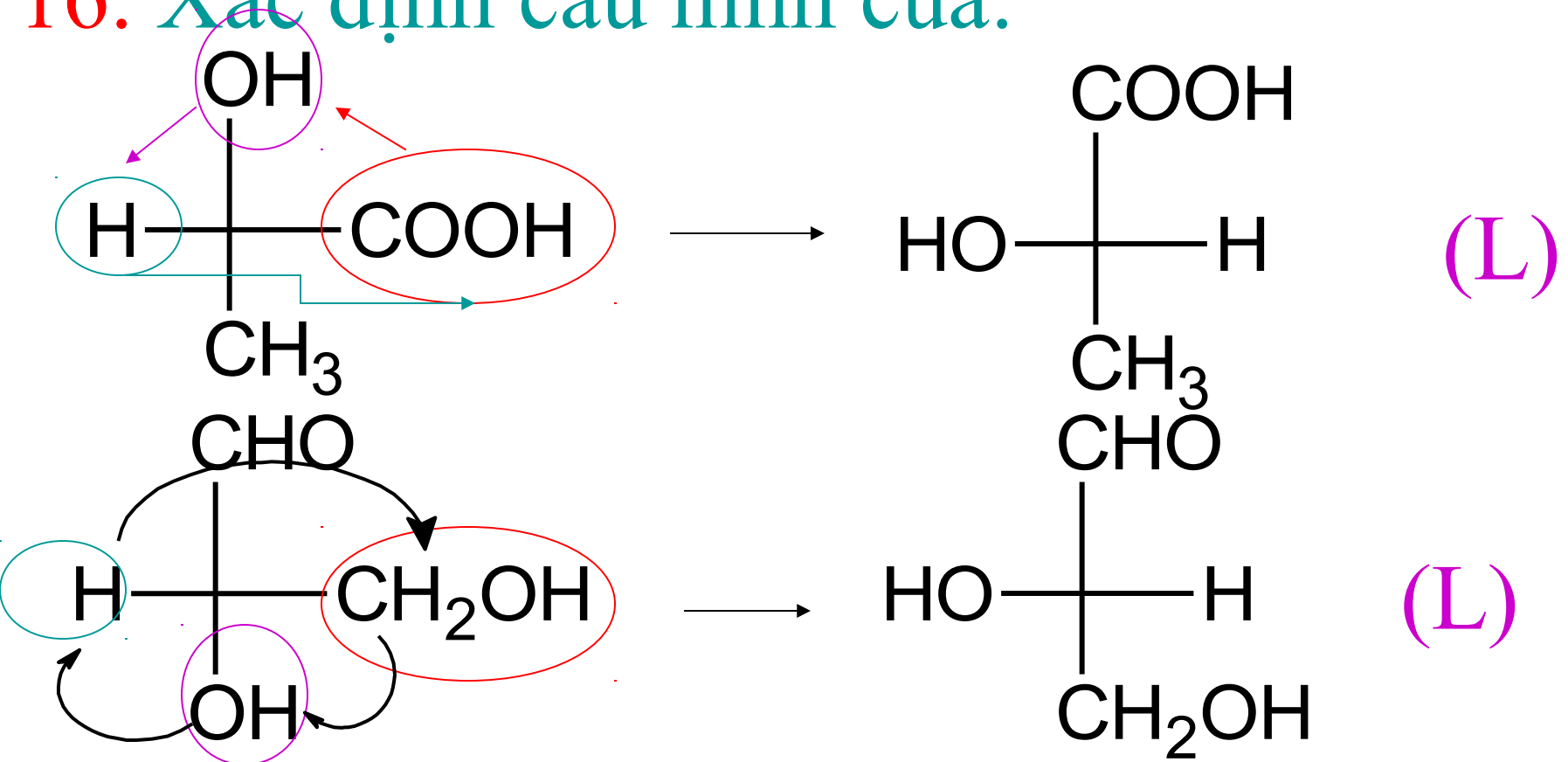
- a. D-Gliceraldehyd
- c. L-Gliceraldehyd

- b. D-Serin
- d. L-Serin



Câu a

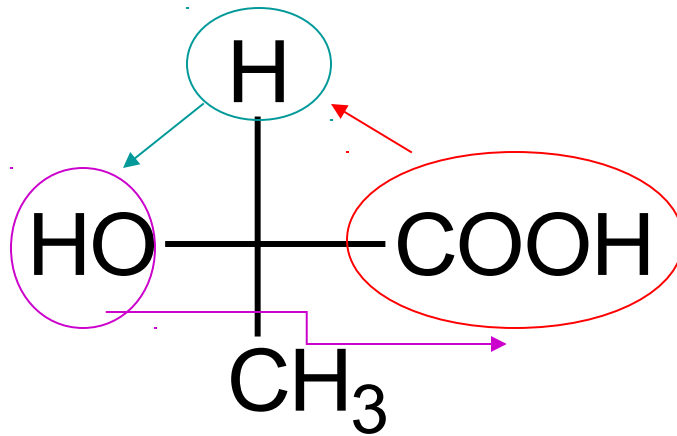
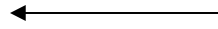
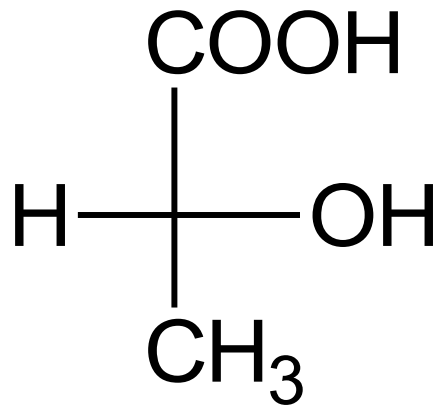
# 16. Xác định cấu hình của:



- a. (A),(B) đều cấu hình L
- b. (A) cấu hình L, (B) cấu hình D
- c. (A) (B) đều cấu hình D
- d. (A) cấu hình D, (B) cấu hình L

Câu a

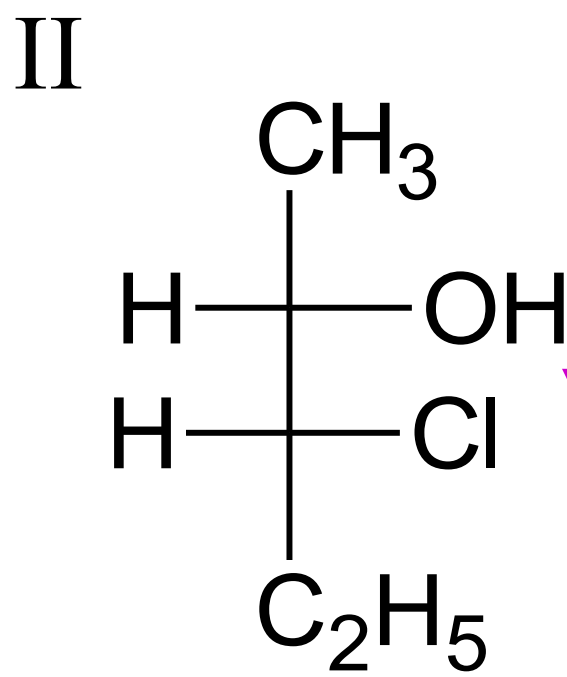
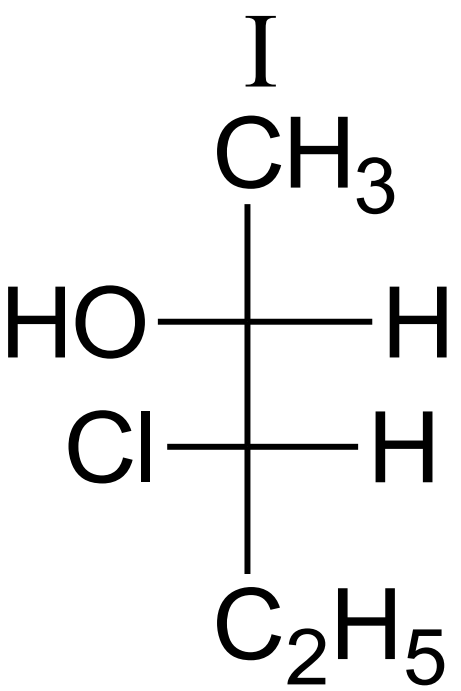
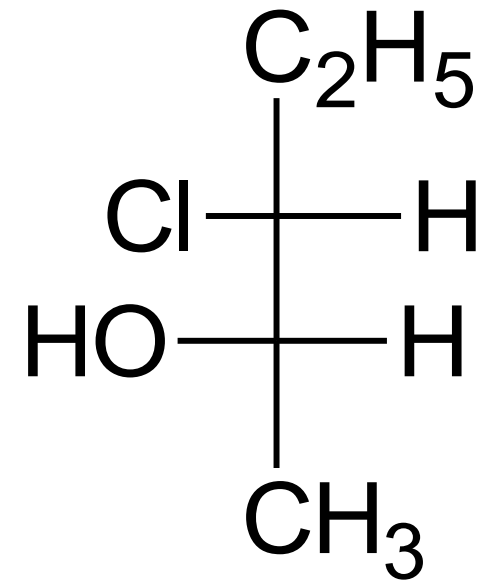
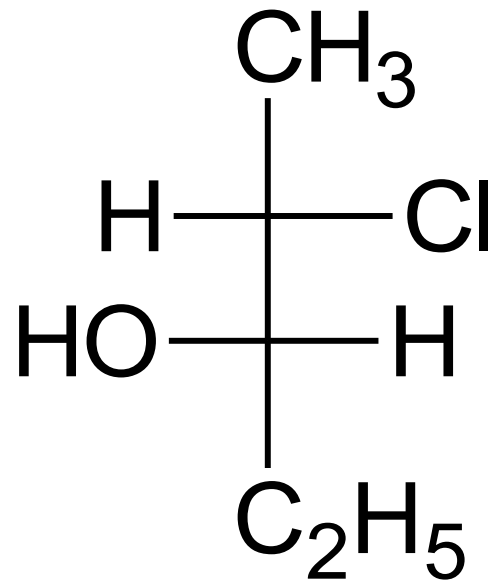
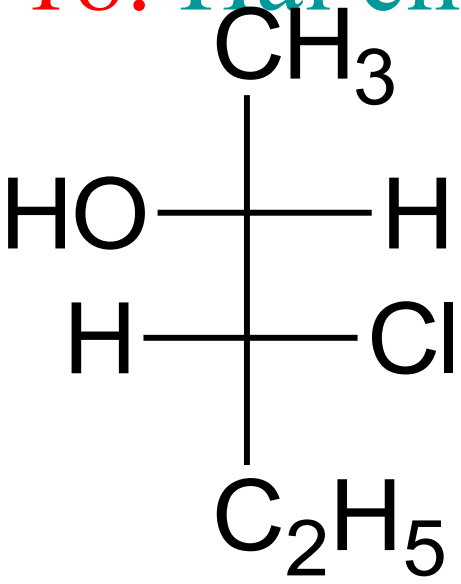
## 17. 2 chất:



- a. 2 chất đối hình
- b. Hỗn hợp tiêu triền
- c. Chỉ là 1 chất
- d. a và b đều đúng

Câu c

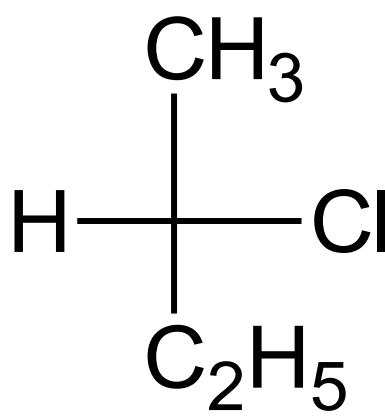
# 18. Hai chất đối hình?



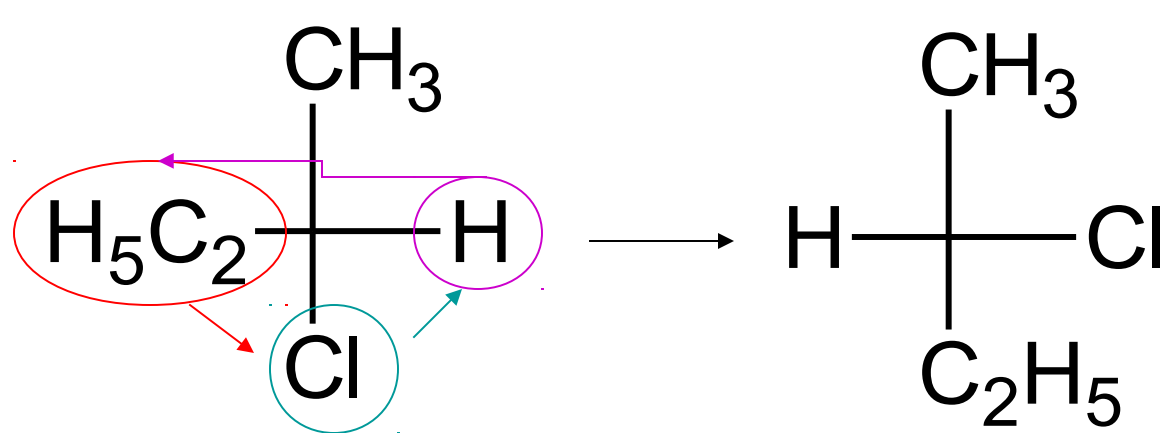
III Quay 180° trong mp

Câu b

# 19. Cho 2 cặp chất: chọn phát biểu đúng

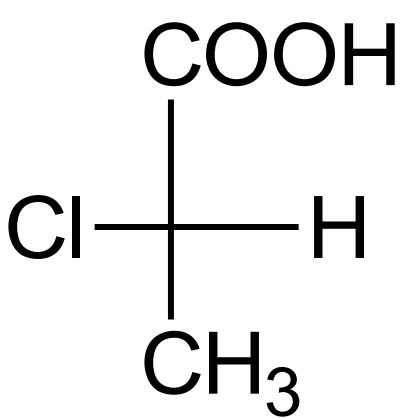


(I)



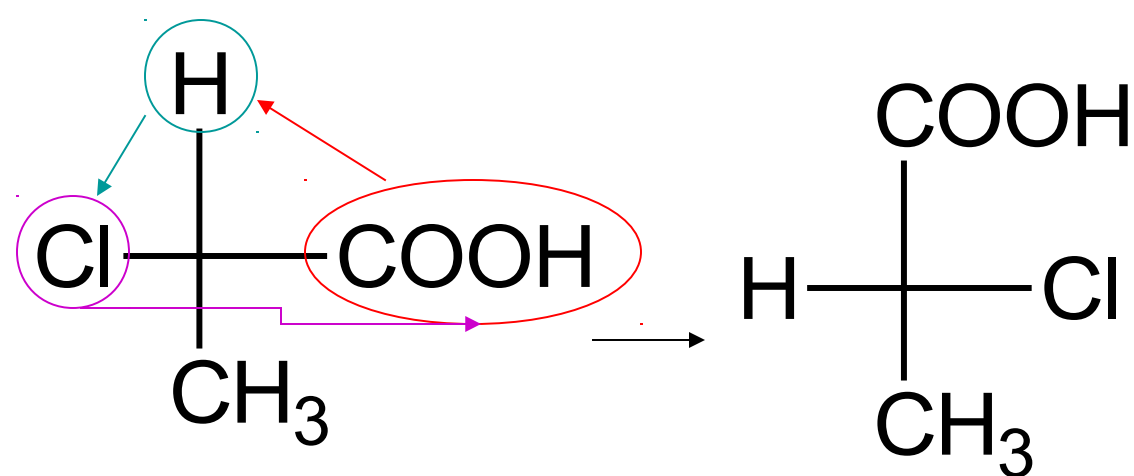
(II)

(I) và (II): 1 chất



(III)

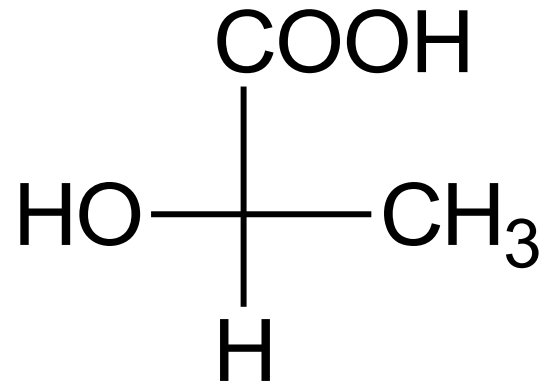
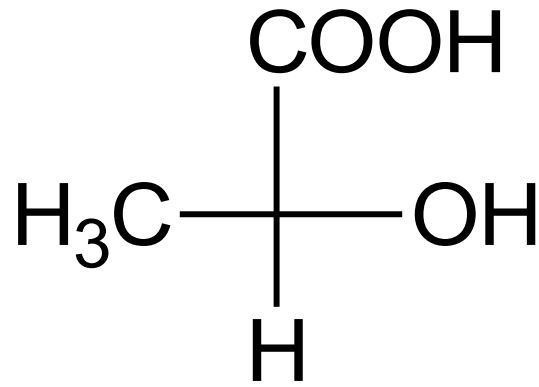
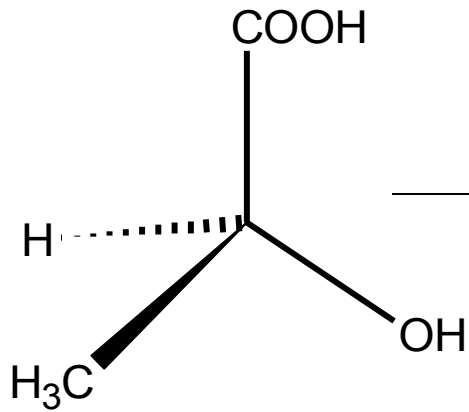
Câu a



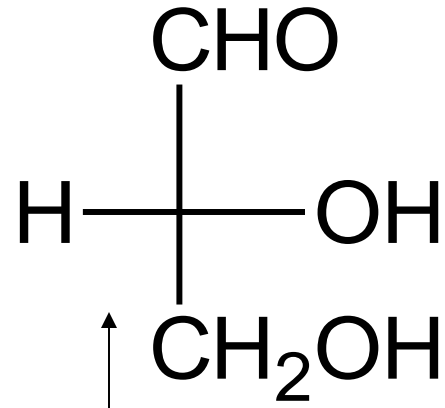
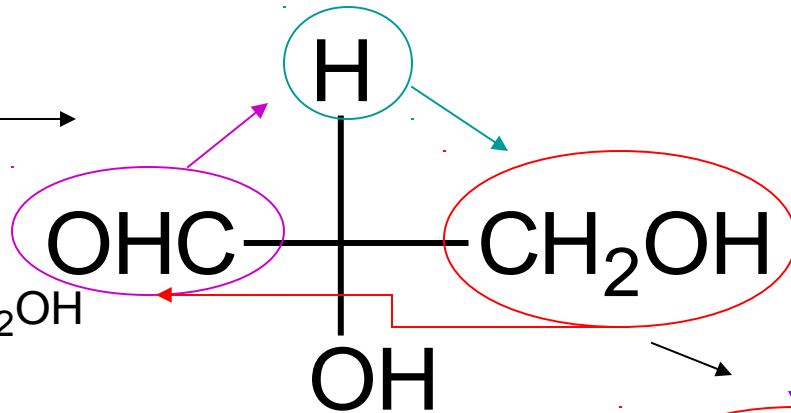
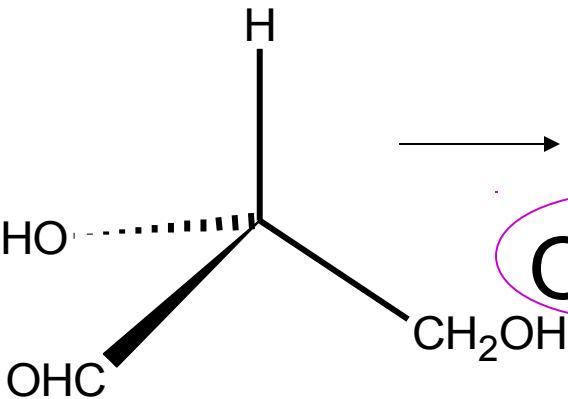
(IV)

(III) và (IV): đối hình

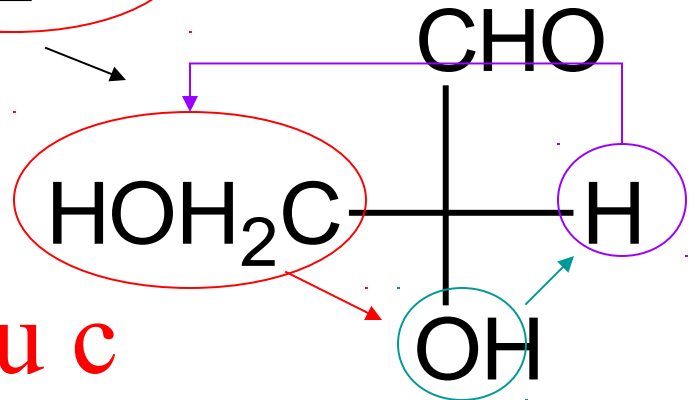
# 20. Cho 2 cặp chất, chọn phát biểu đúng



(I) và (II): đối hình

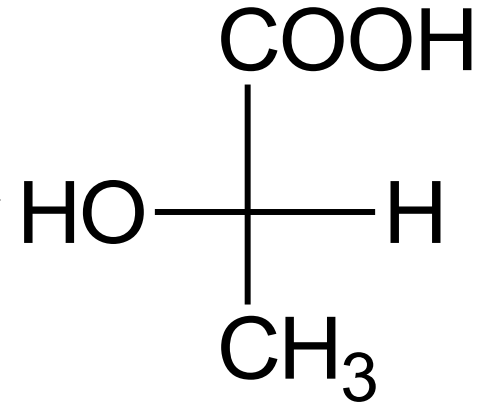
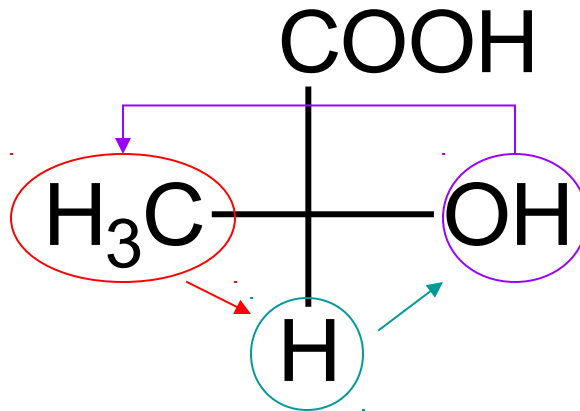
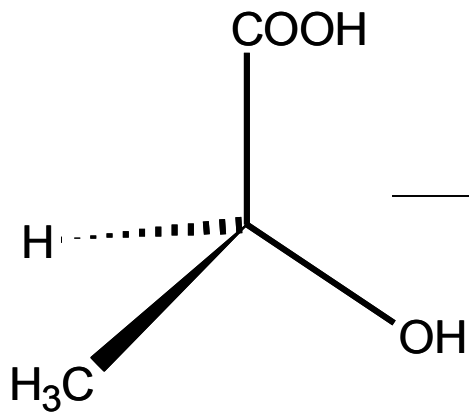


(III) và (IV): 1 chất

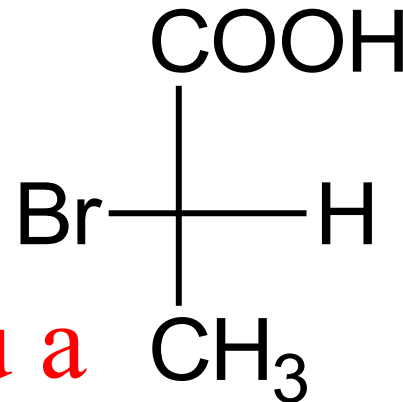
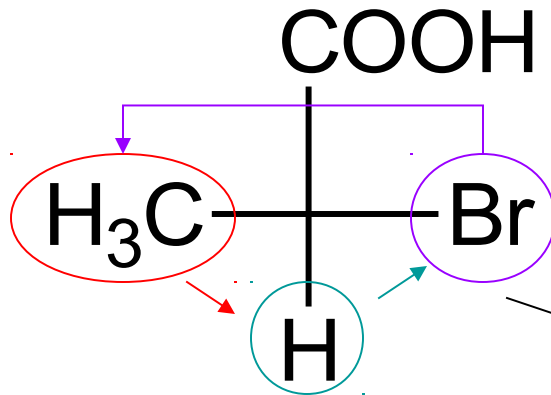
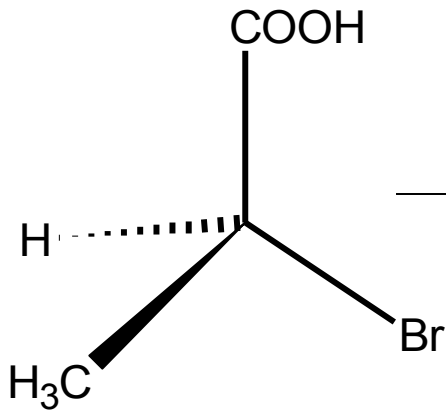
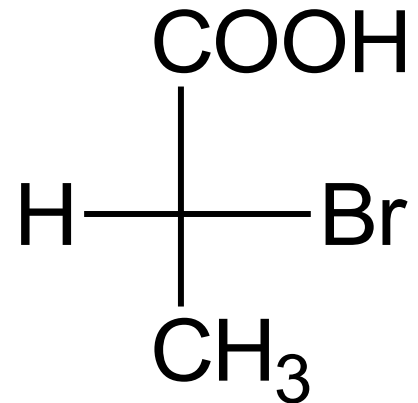


Câu c

# 21. Cho 2 cặp chất; chọn phát biểu đúng



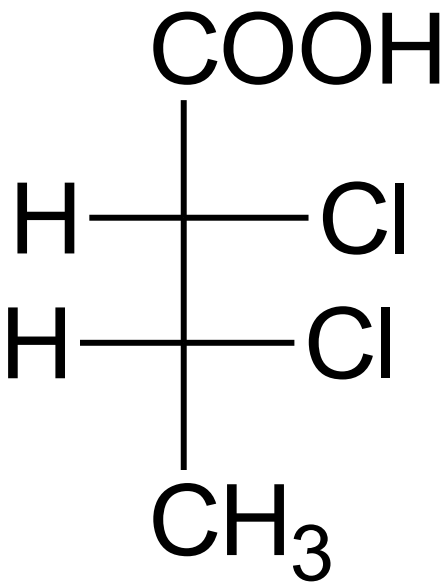
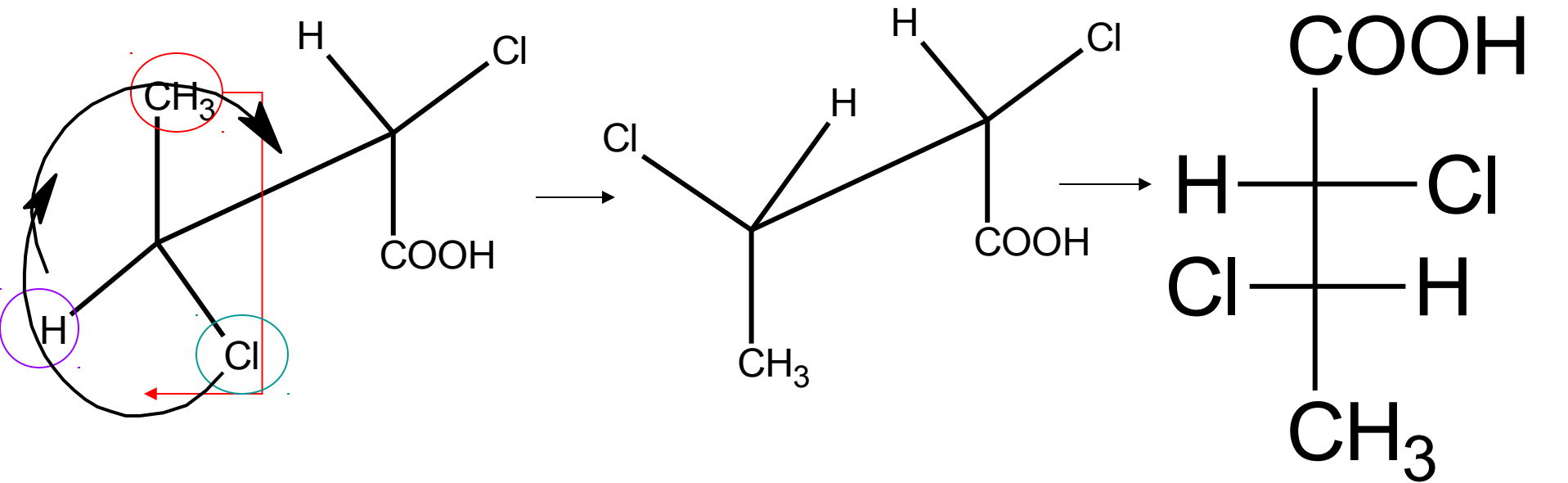
(I) và (II): là 1 chất



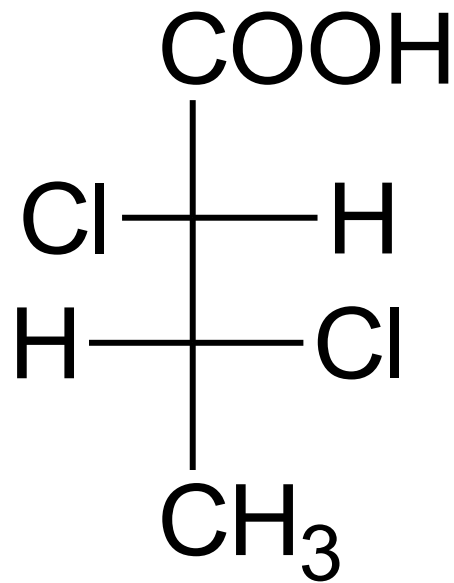
(III) và (IV): đối hình **Câu a**



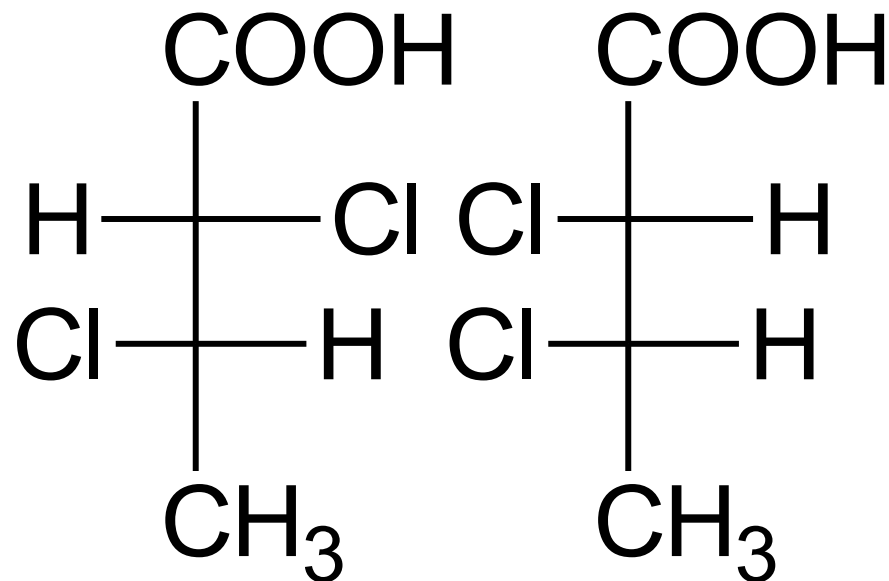
## 22. Công thức chiếu Fischer đúng của:



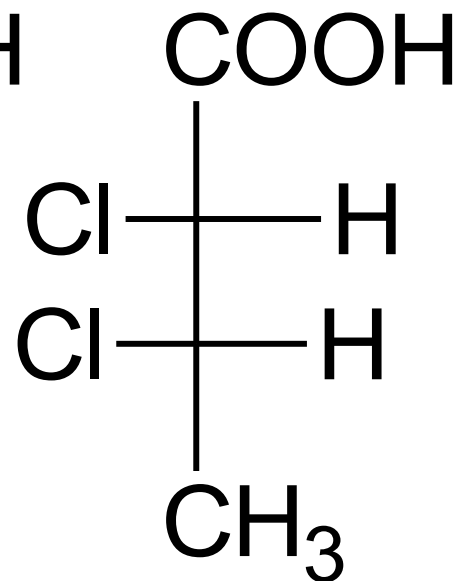
(I)



(II)



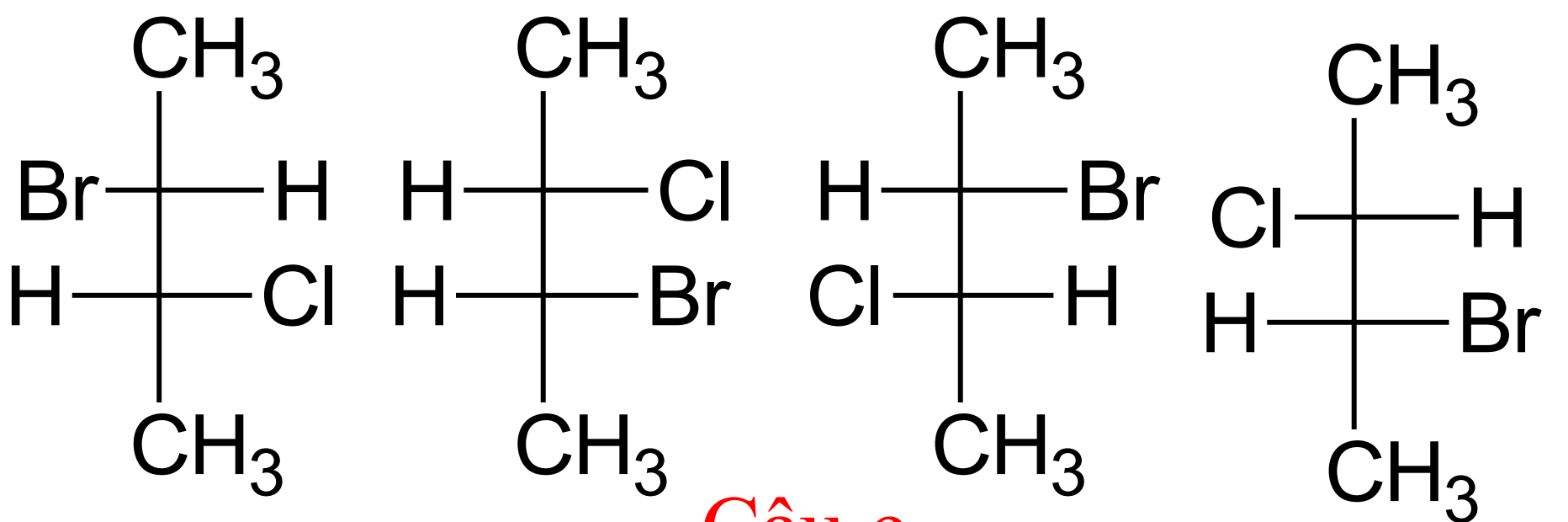
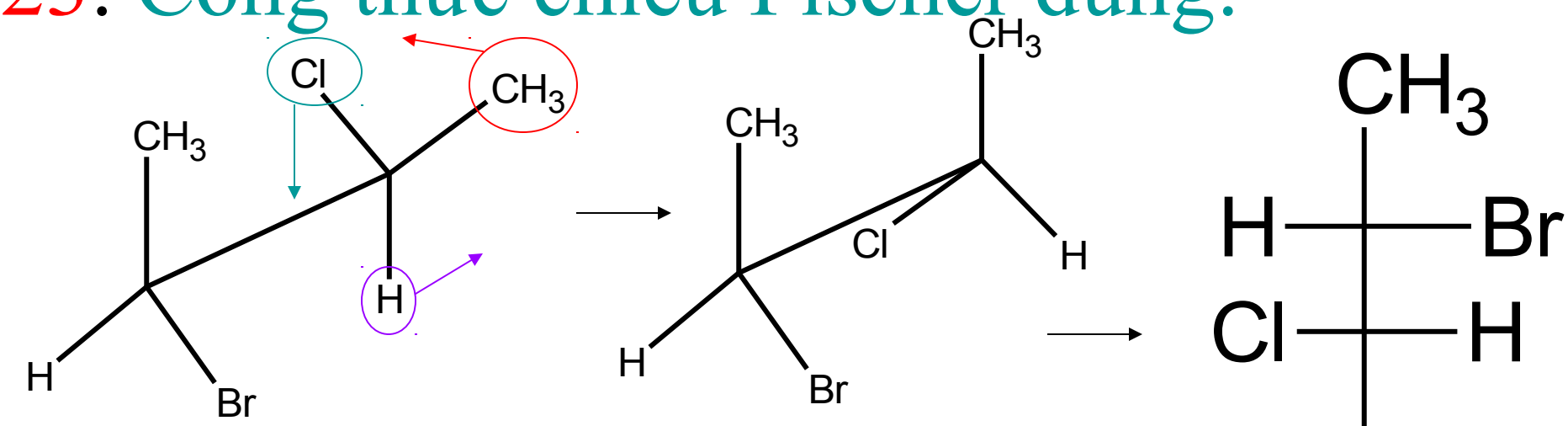
(III)



(IV)

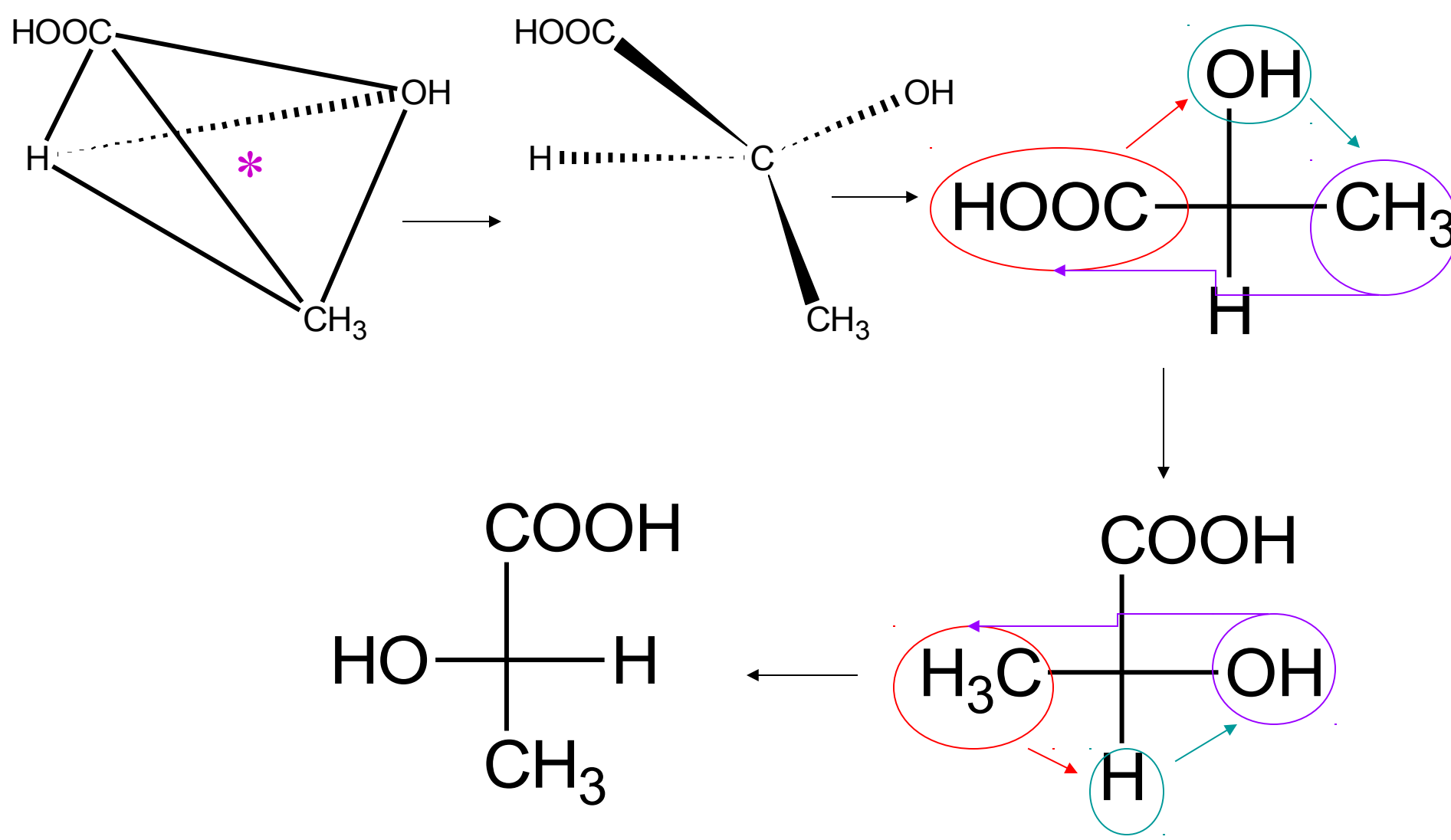
Câu c

# 23. Công thức chiếu Fischer đúng:

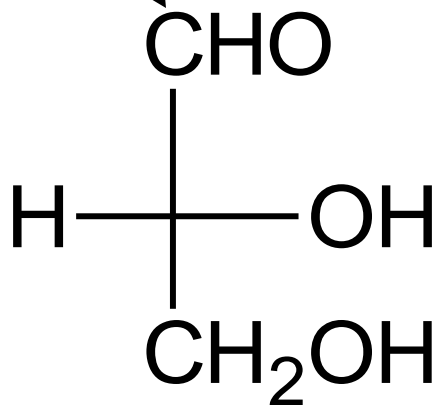
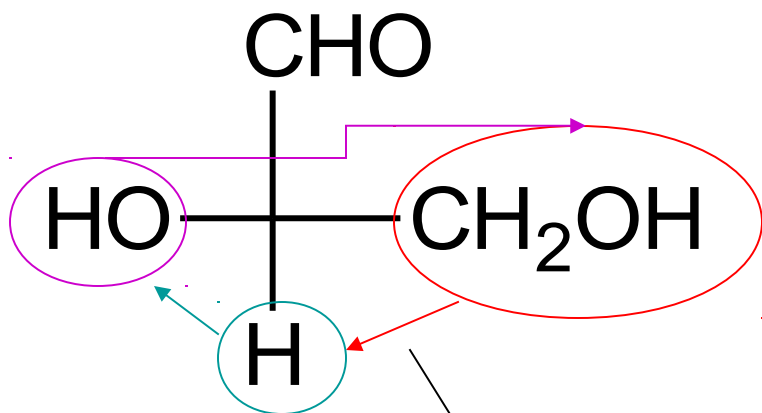
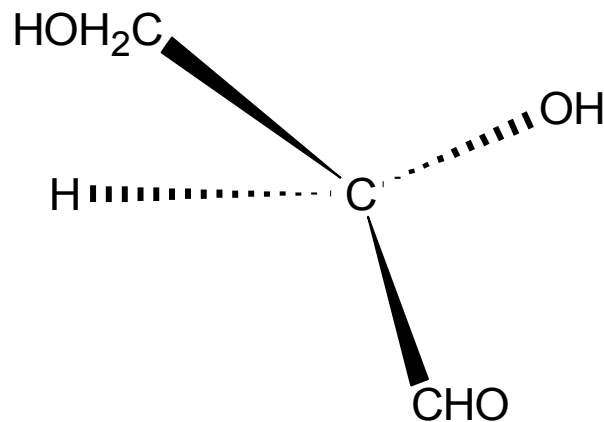
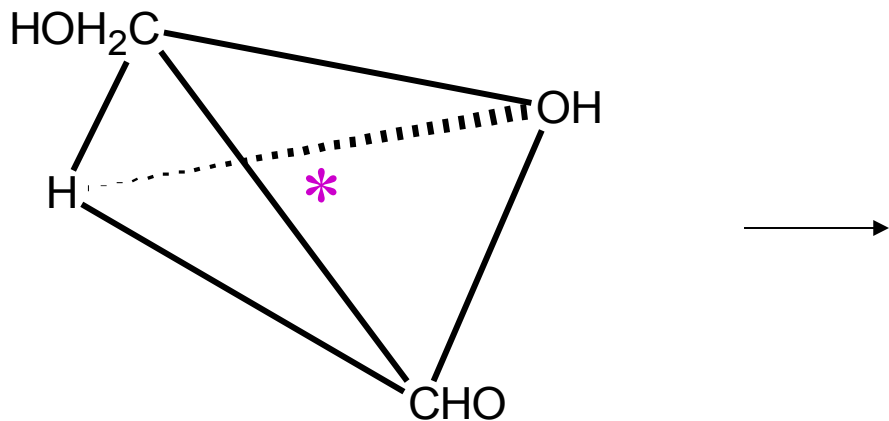


Câu c

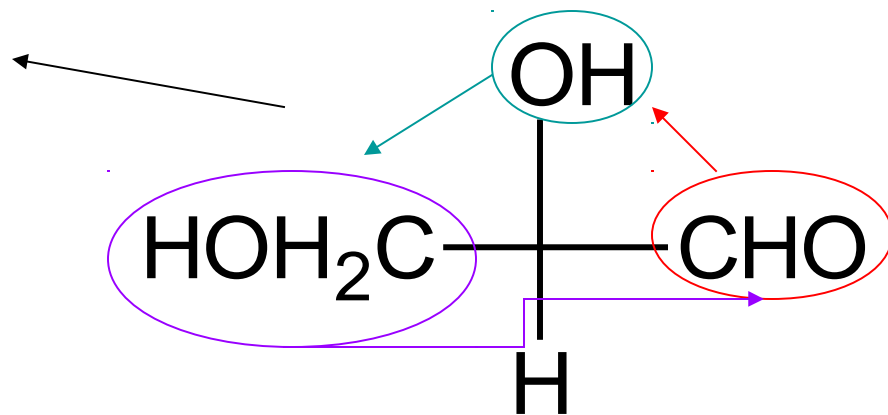
# 24. Cho 2 chất; chọn phát biểu đúng



(I) Cấu hình L

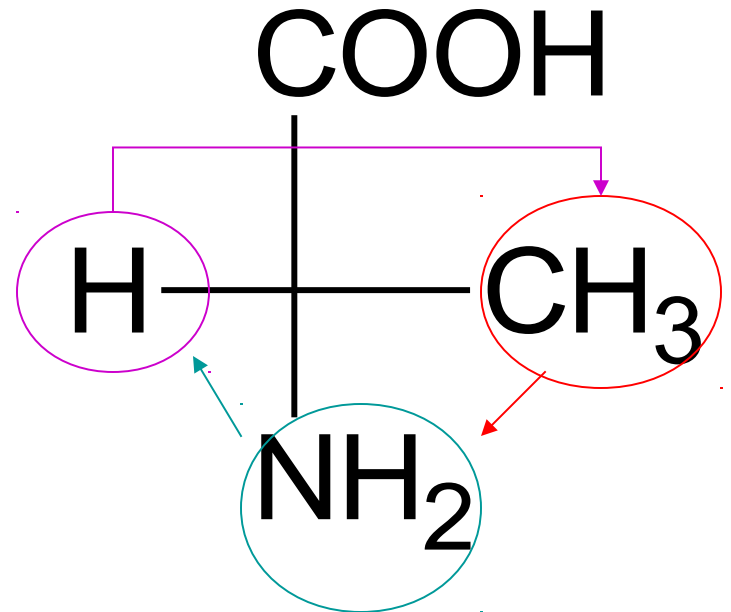
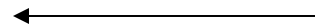
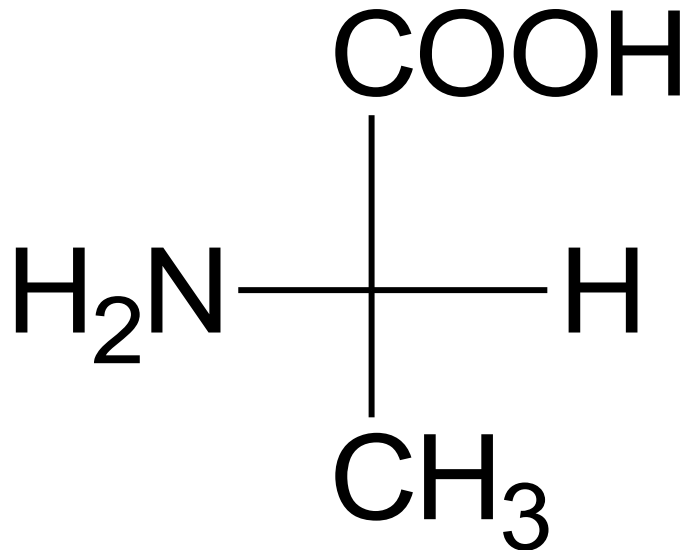
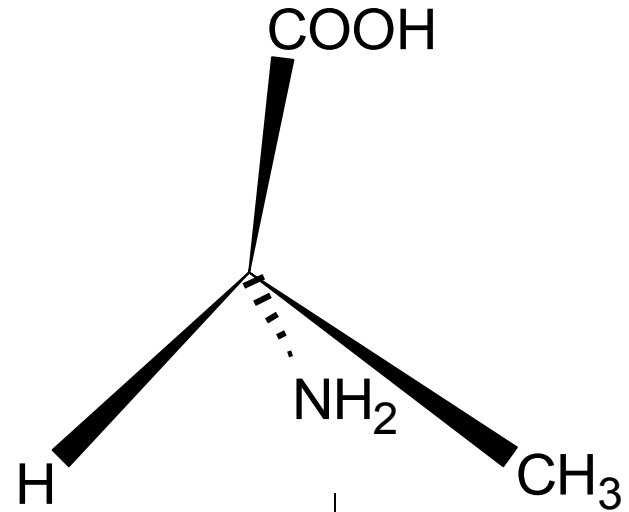
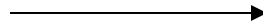
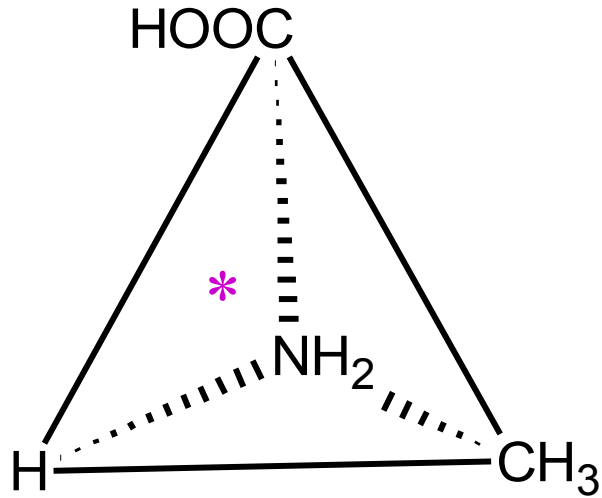


Câu b

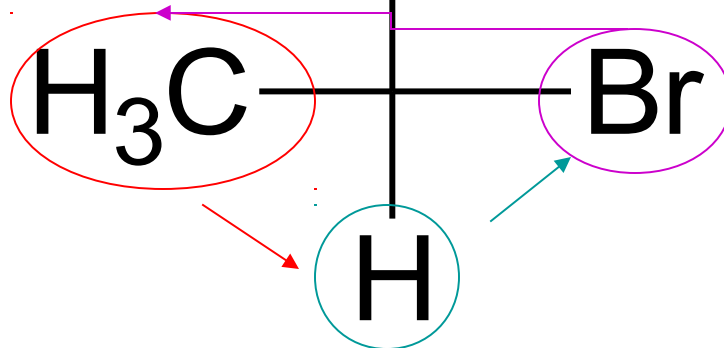
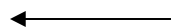
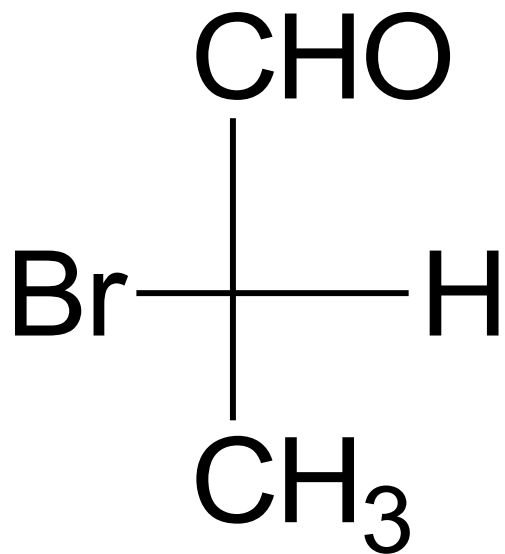
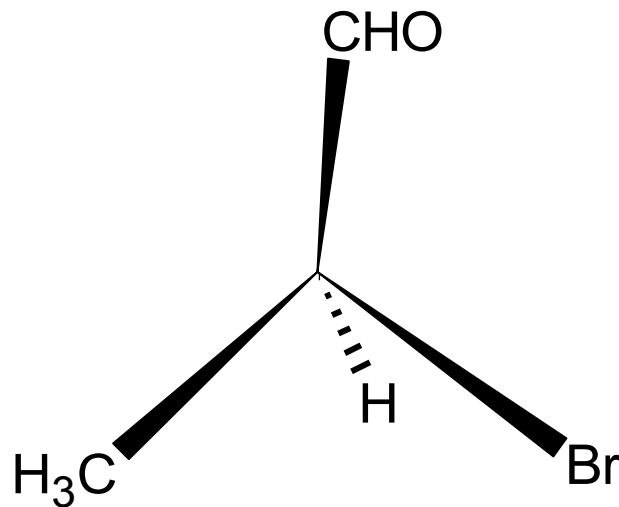
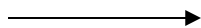
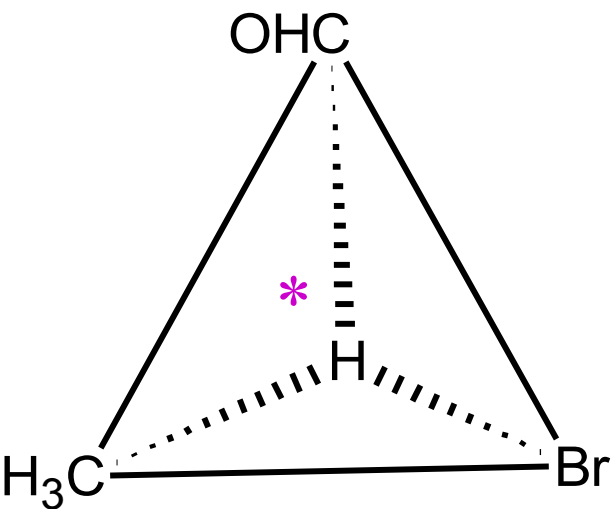


(II): cấu hình D

# 25. Cho 2 chất, chọn phát biểu đúng



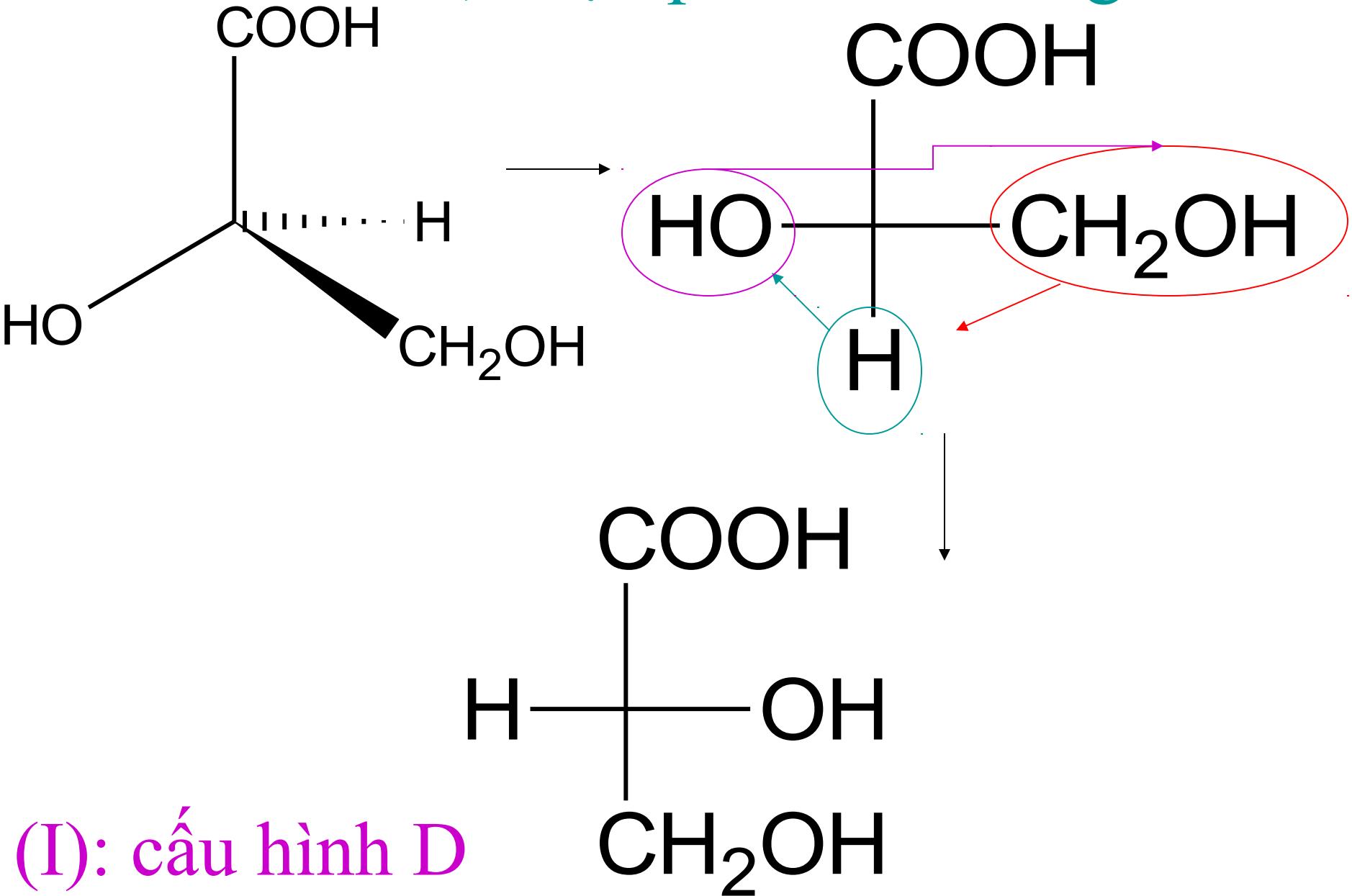
(I): cấu hình L

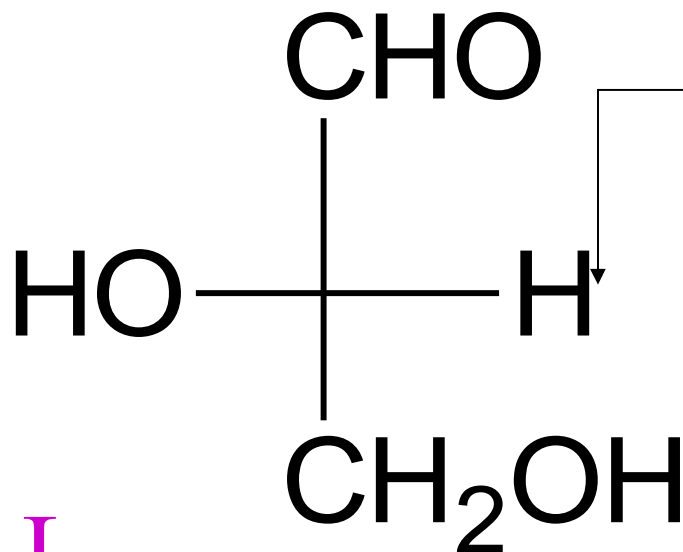
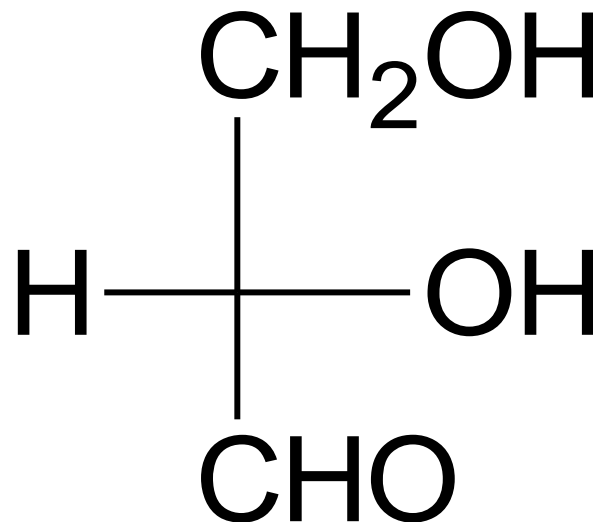
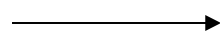
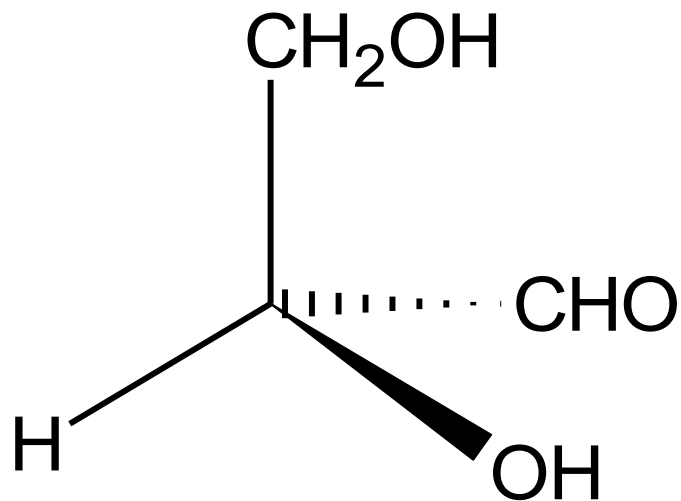


(II): cấu hình L

Câu d

26. Cho 2 chất, chọn phát biểu đúng





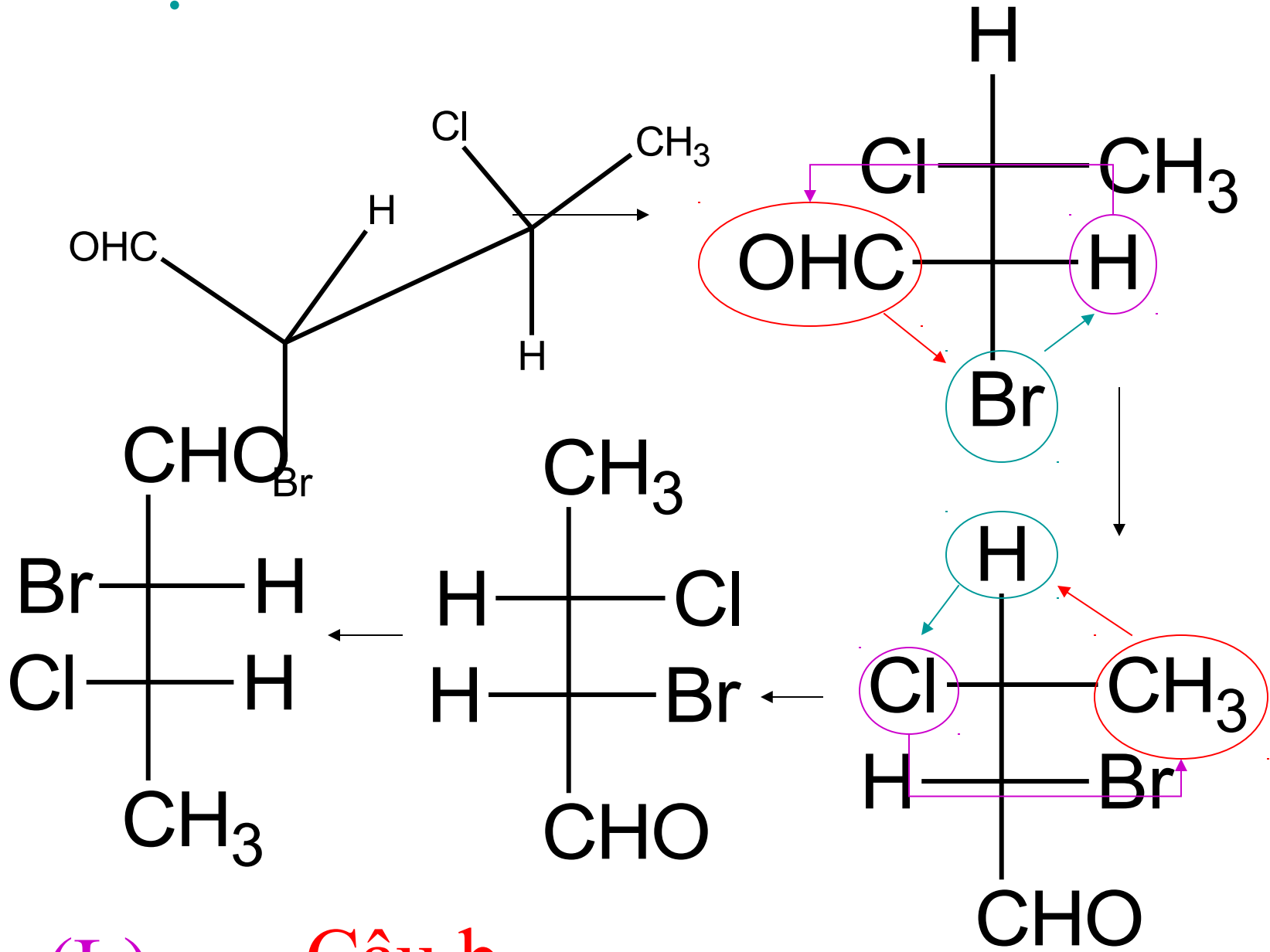
Quay 180°  
trong mp

(II): cấu hình L

Câu c



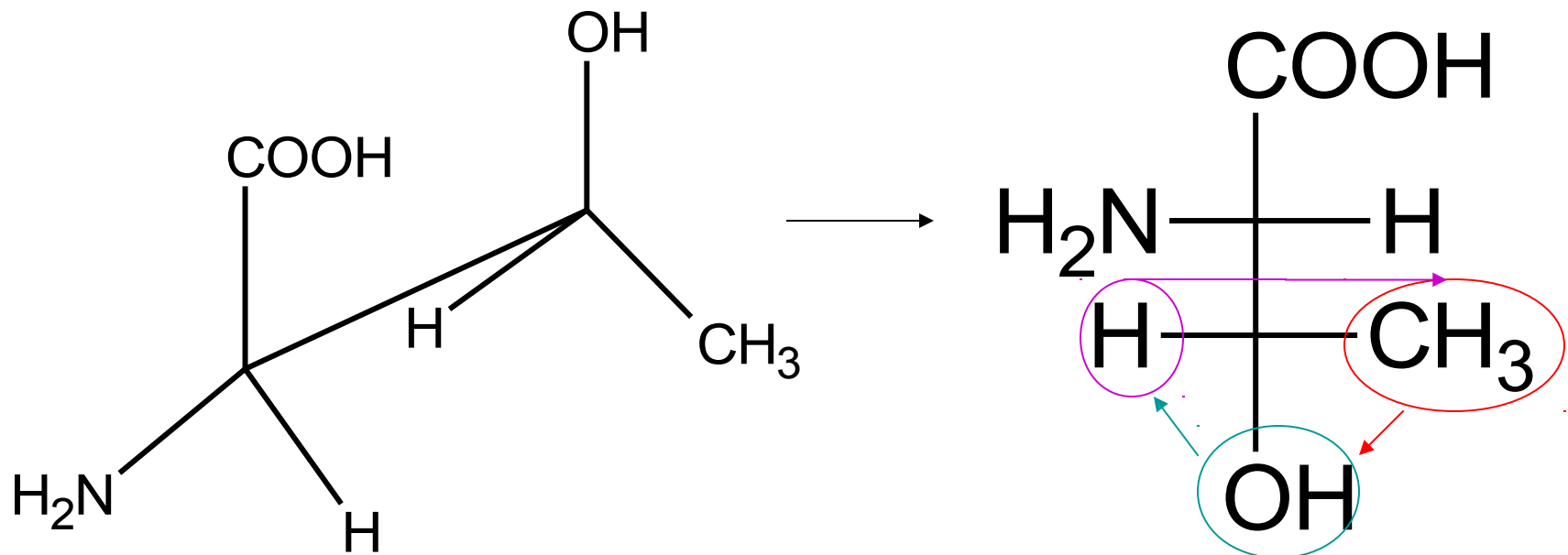
# 27. Đọc tên cấu hình của:



(L)

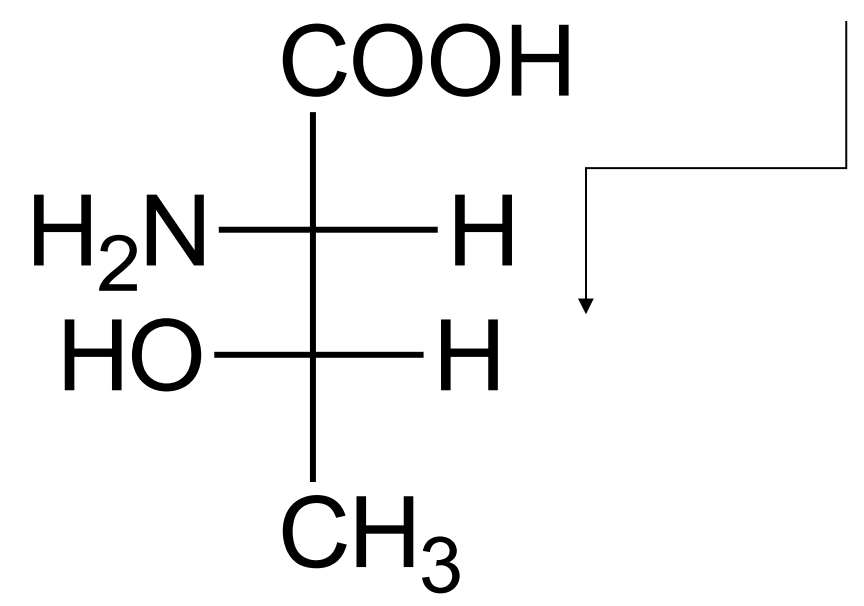
Câu b

# 28. Đọc tên cấu hình của:

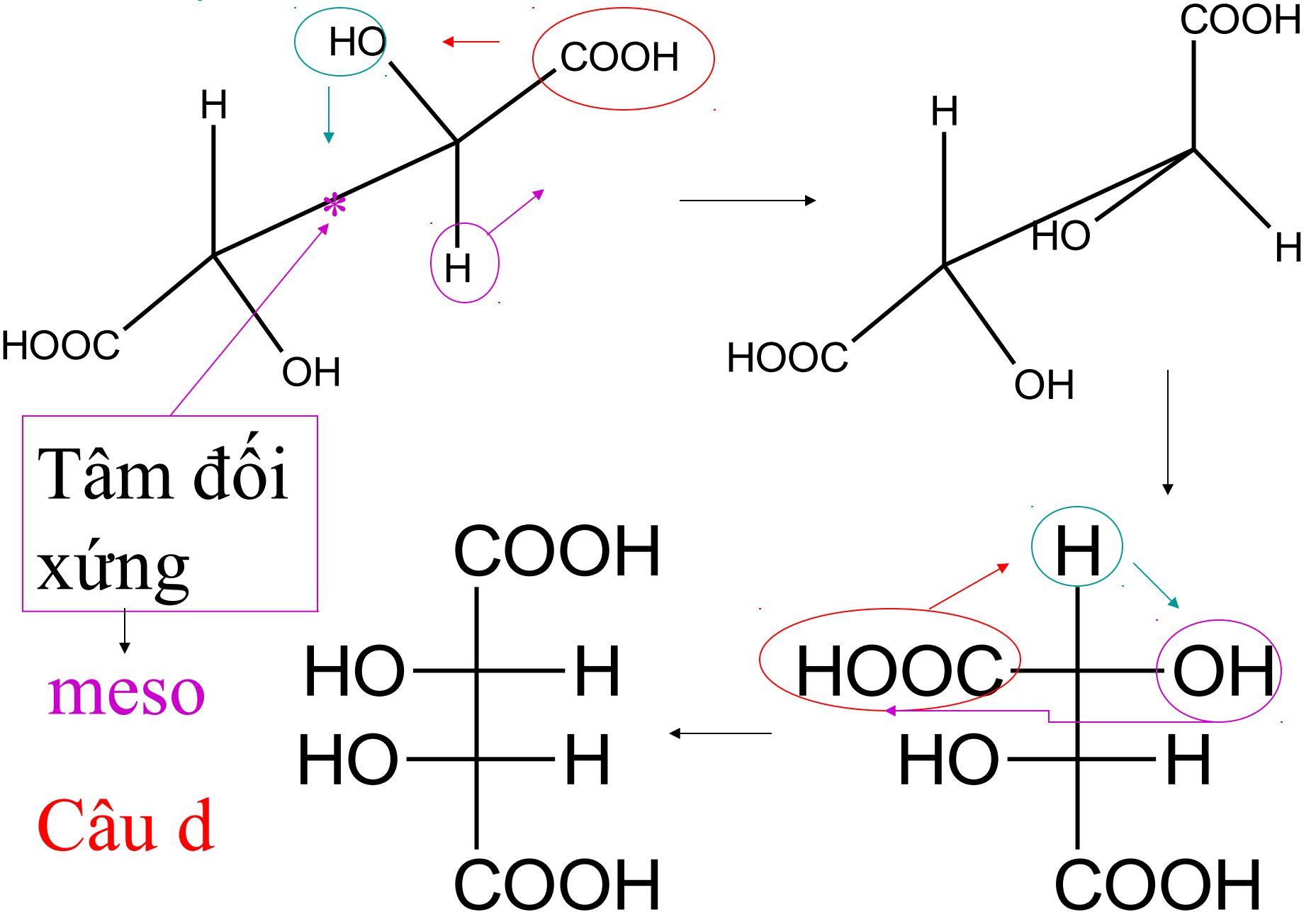


(L)

Câu b

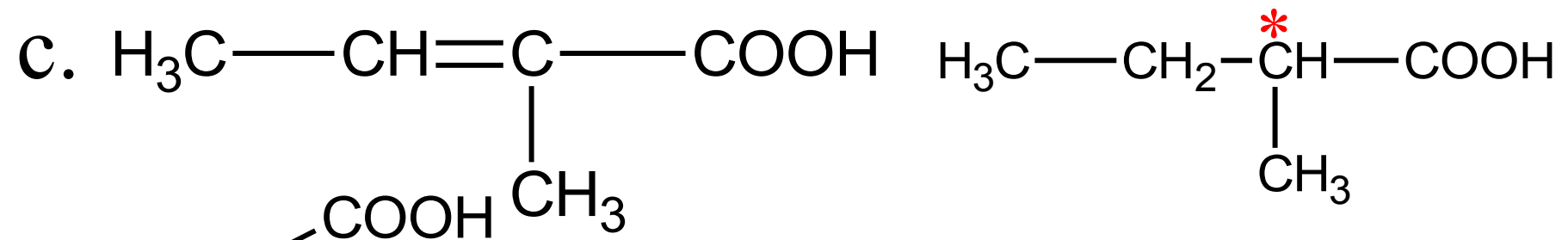
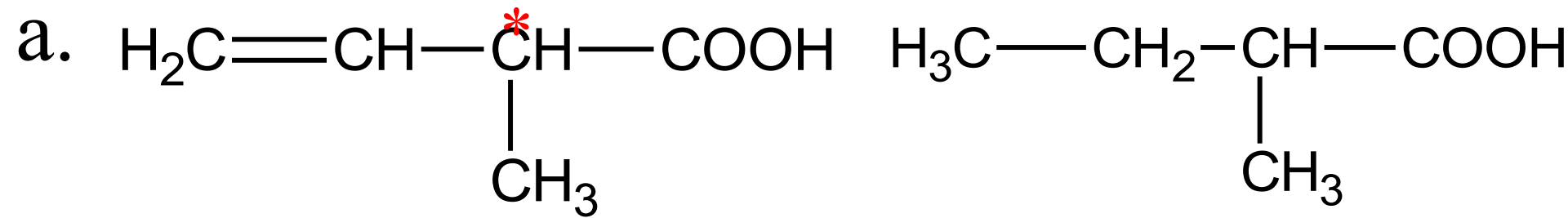


# 29. Đọc tên cấu hình của:



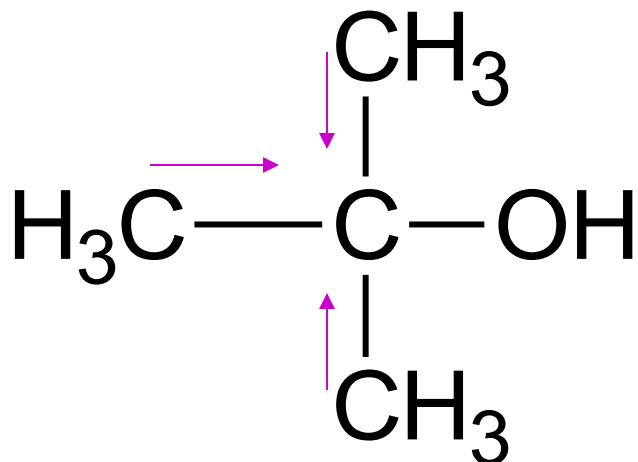
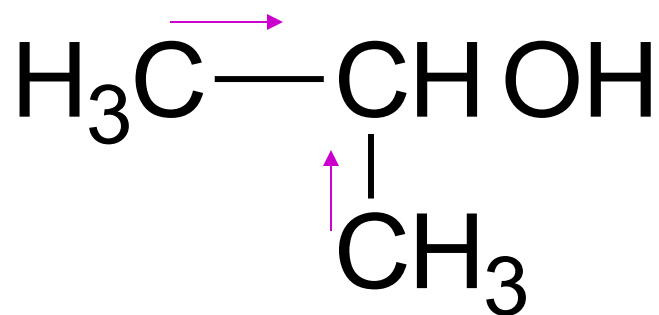
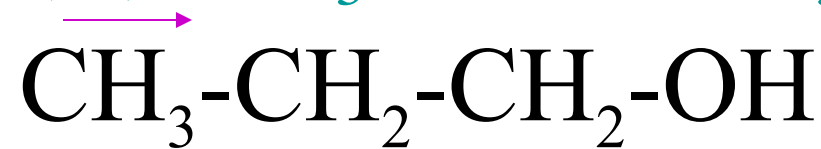
30. Axit A(C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>) có thể ở 2 dạng không có tính triền quang. Hidro hóa A cho B(C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>) có thể tách làm 2 chất đối hình.

CTCT của A và B?



# Hiệu ứng điện tử

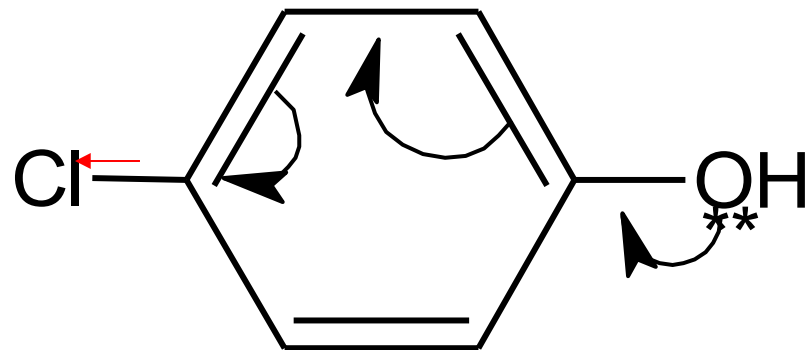
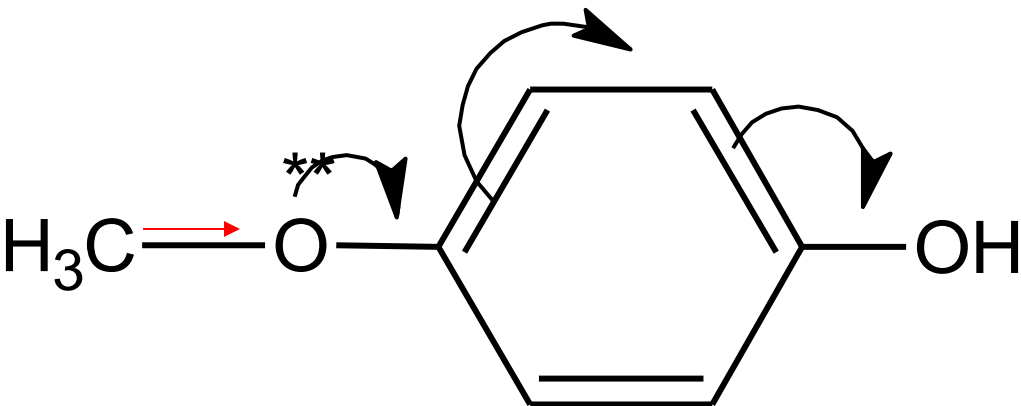
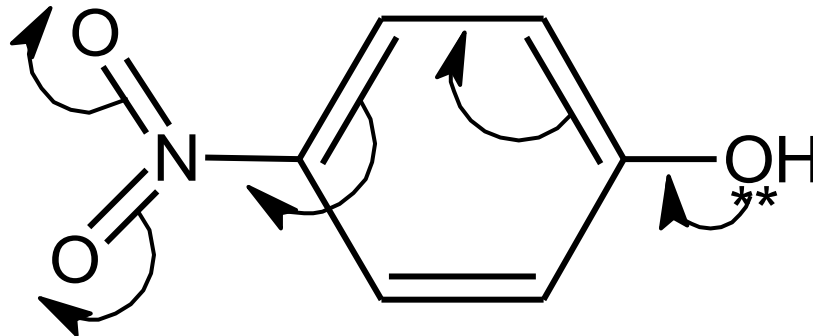
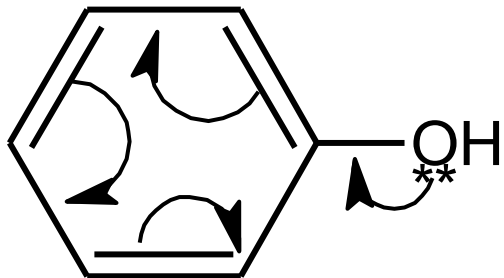
39. So sánh tính axit: (I)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ ,  
(II)  $\text{CH}_3\text{CHOHCH}_3$ , (III)  $(\text{CH}_3)_3\text{COH}$



Hư +I tăng theo  
chiều dài mạch C và  
sự phân nhánh

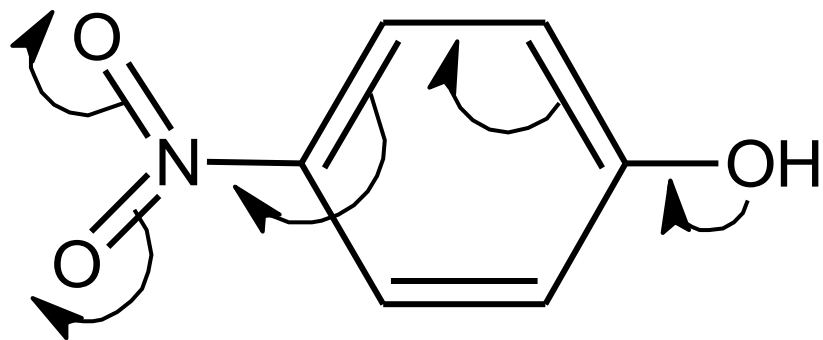
a. (I) > (II) > (III)

## 40. So sánh tính axit:

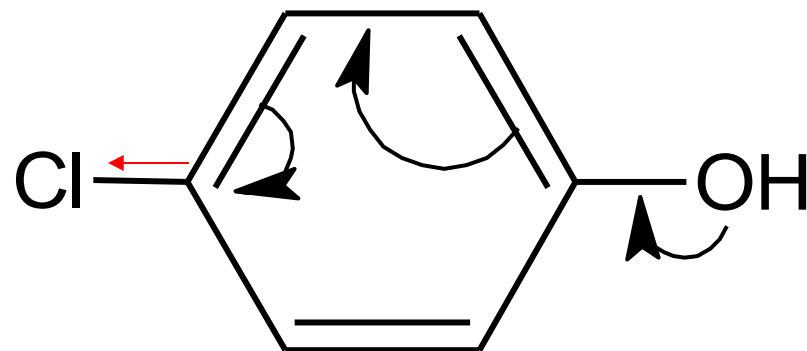


# 41. So sánh tính axit:

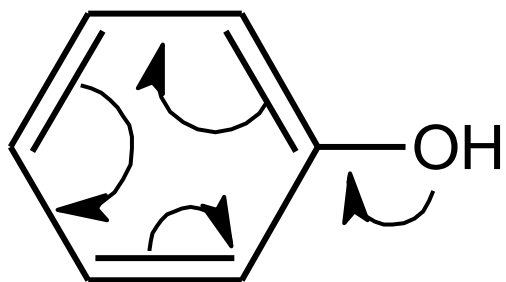
(I): p-nitrophenol



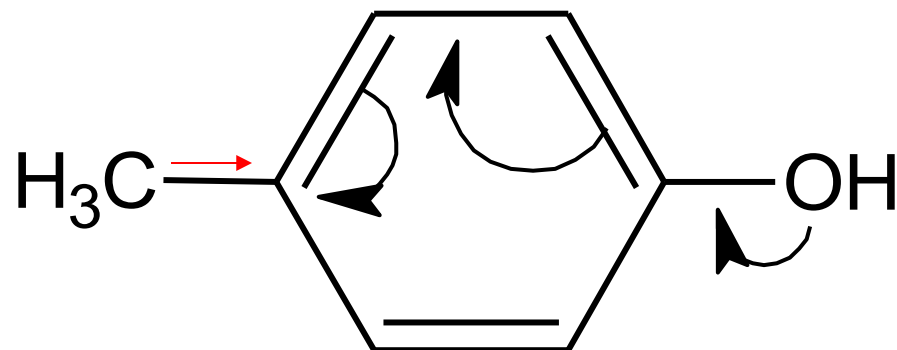
(II): p-clophenol



(III): phenol



(IV): p-cresol:

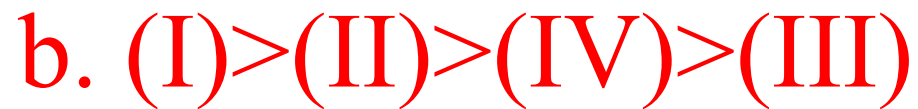


d. (IV) < (III) < (II) < (I)

42. So sánh tính axit:

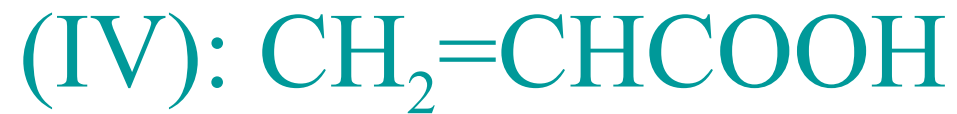


43. So sánh tính axit:





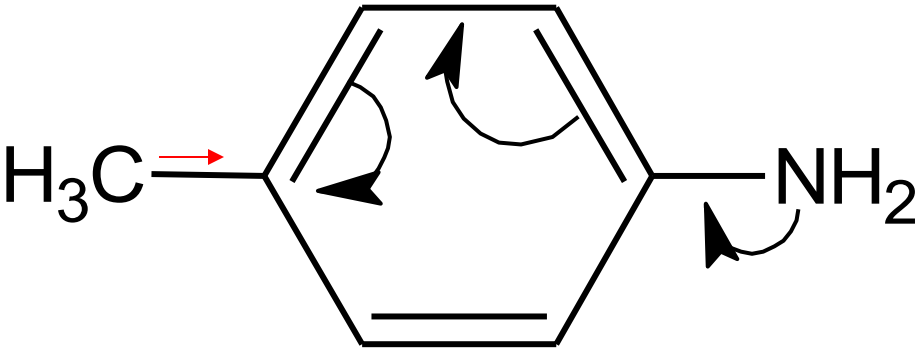
44. So sánh tính axit:



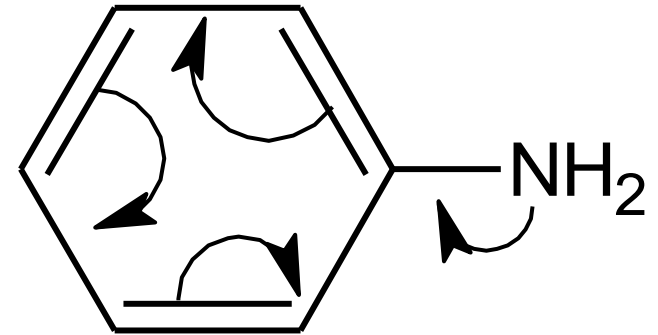
a.  $(\text{I}) > (\text{II}) > (\text{III}) > \text{IV}$

# 45. So sánh tính baz:

(A): p-toludin



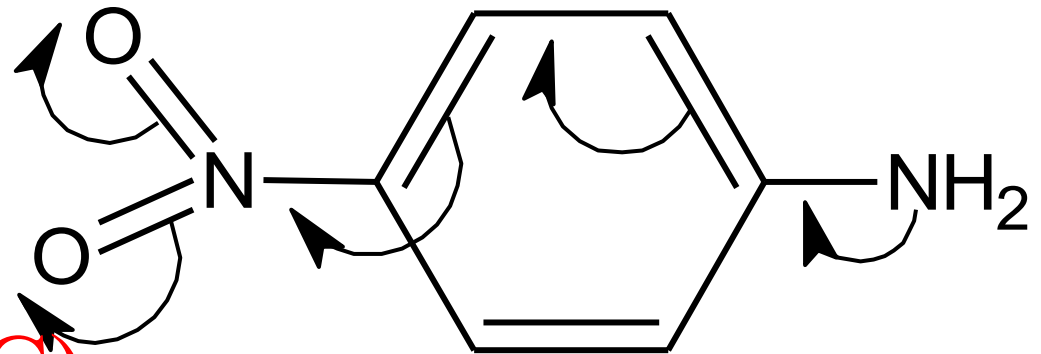
(B): Anilin



(C): Etilamin



(D): p-nitroanilin



b.  $(\text{D}) < (\text{B}) < (\text{A}) < (\text{C})$

46. So sánh tính baz:

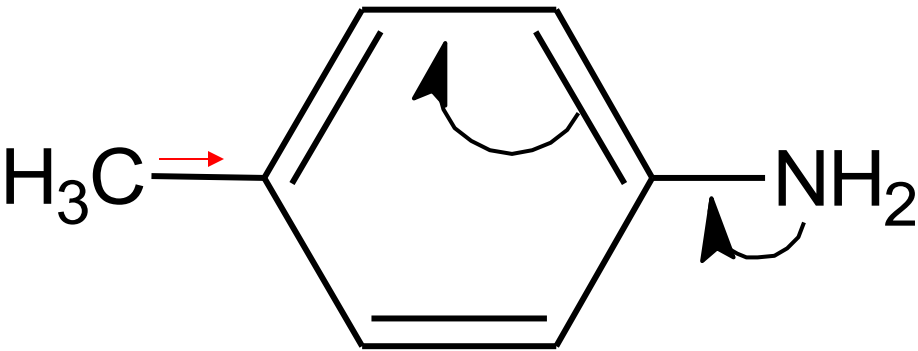
(A): n-propilamin



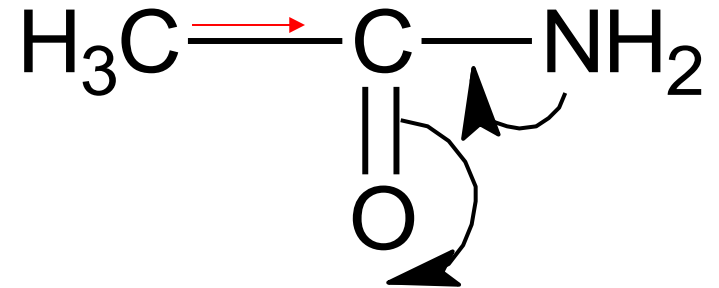
(B): triphenilamin



(C): p-toludin

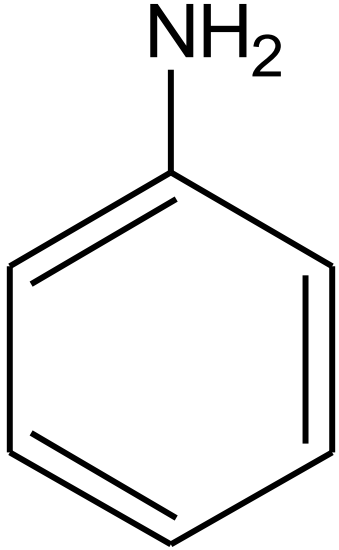


(D): Acetamid

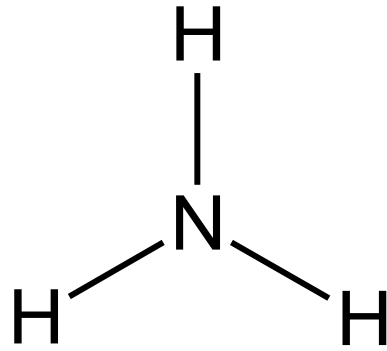


d. (B) < (D) < (C) < (A)

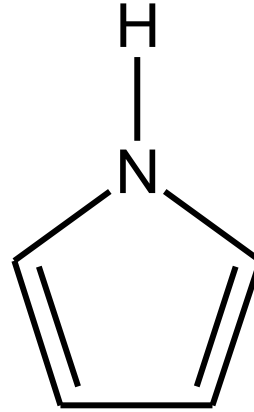
# 47. Tính baz giảm dần:



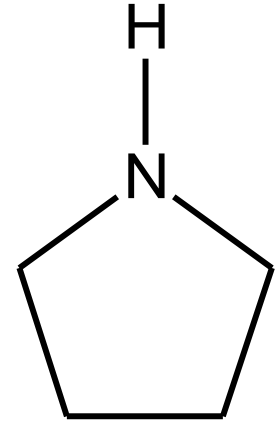
(1)



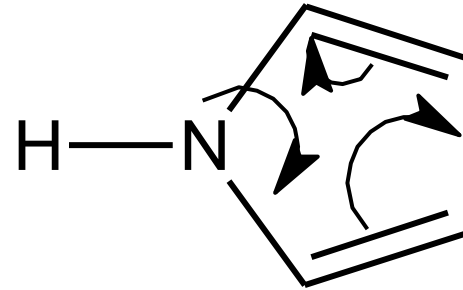
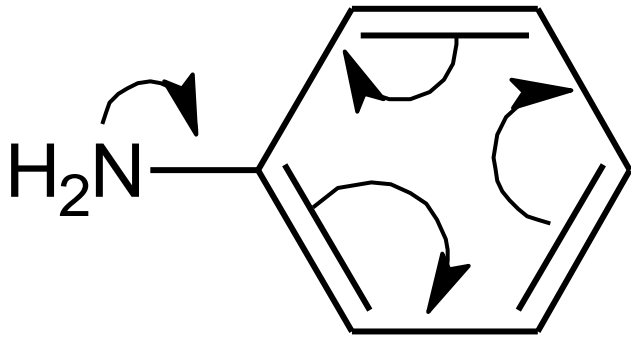
(2)



(3)



(4)



b.  $4 > 2 > 3 > 1$

48. Sản phẩm chính của pư (1) và (2) là:



Hư siêu liên hợp chiếm ưu thế

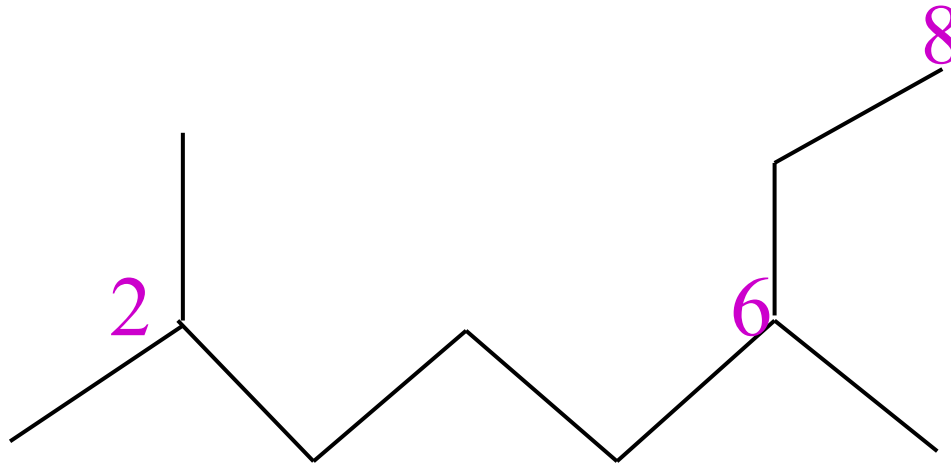
b.  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHClCH}_3$  và



# CHƯƠNG II: HYDROCARBON

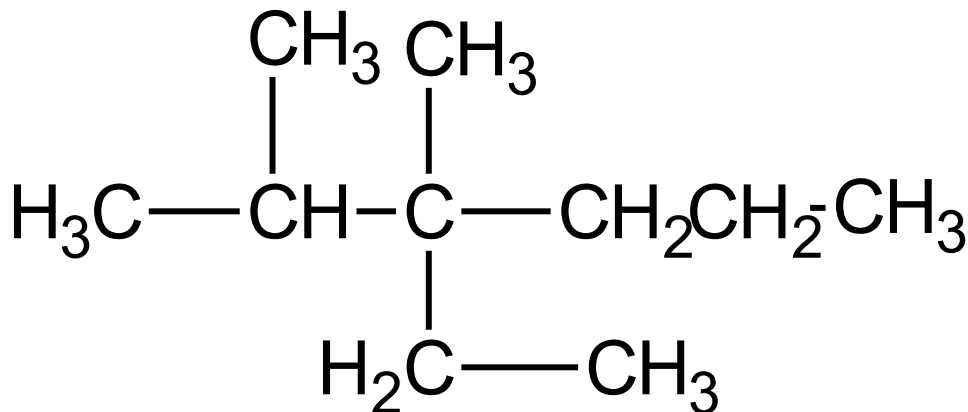
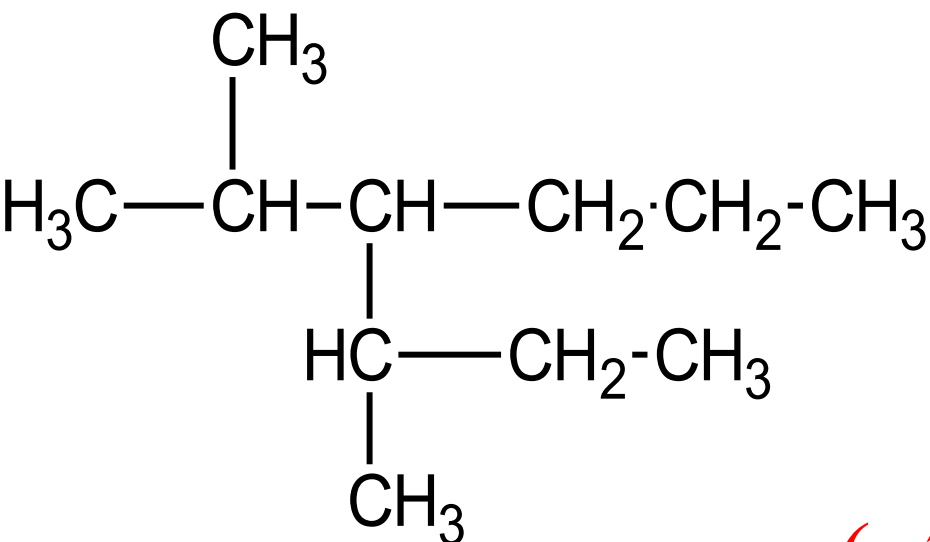
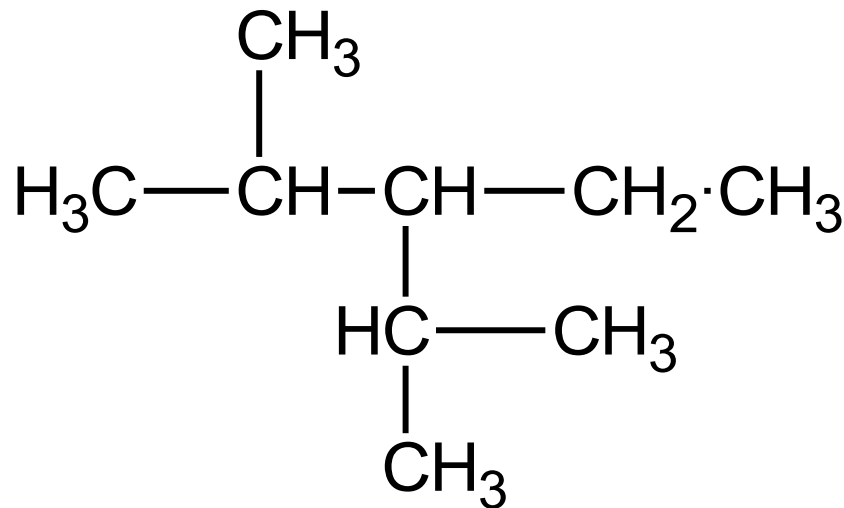
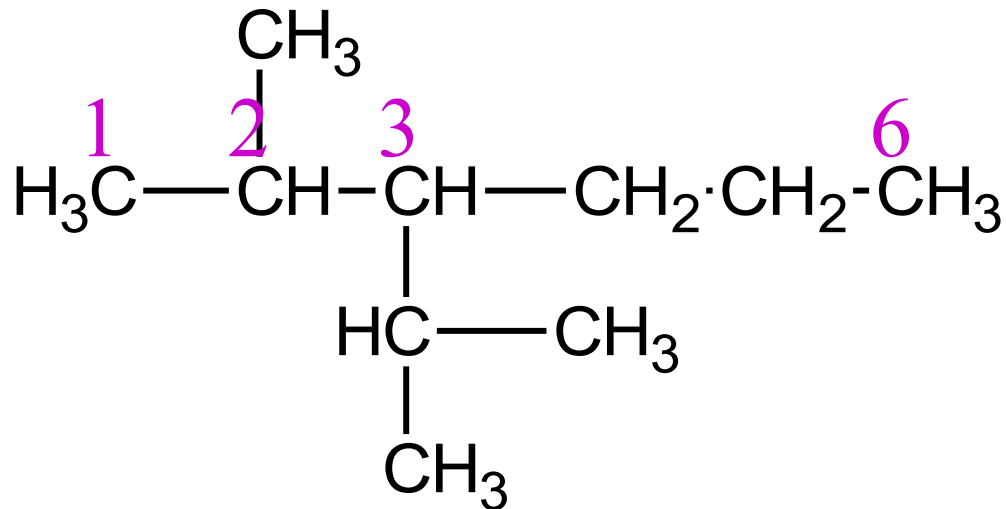
## A: Ankan

1. Tên của hợp chất dưới đây là:



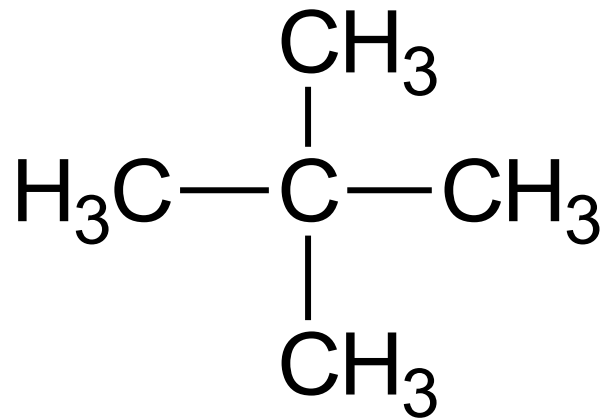
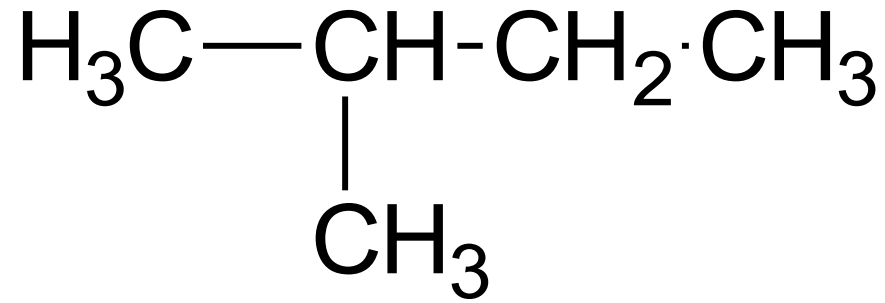
c. 2,6-dimetyloctan

## 2. 2-Metyl-3-(1-metyletyl)hexan?



(câu a)

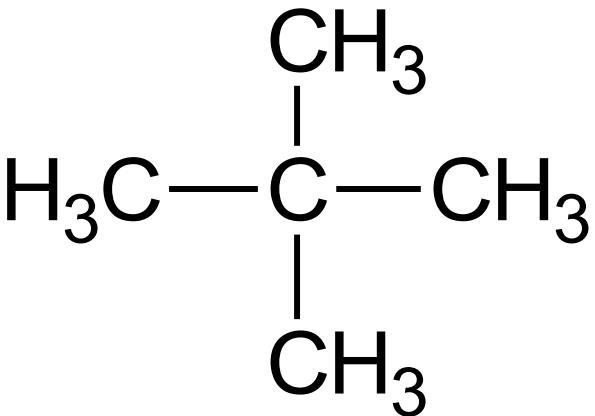
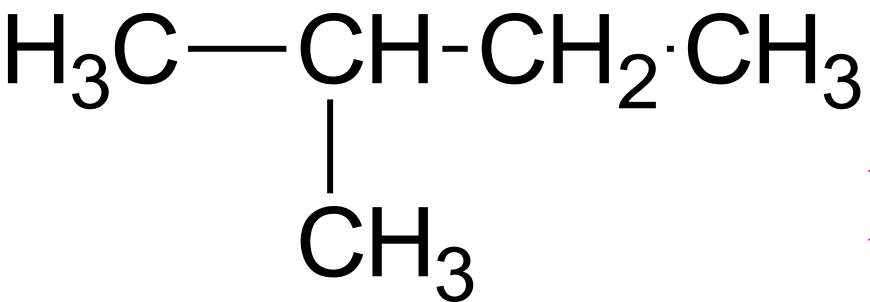
3. Số đồng phân cấu tạo của  $C_5H_{12}$  là



c. 3



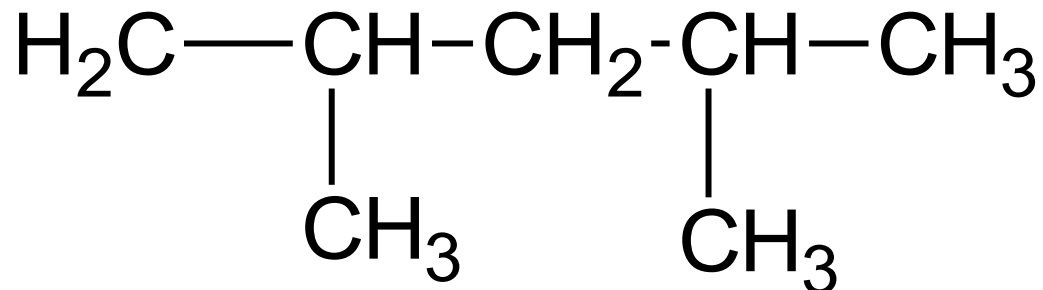
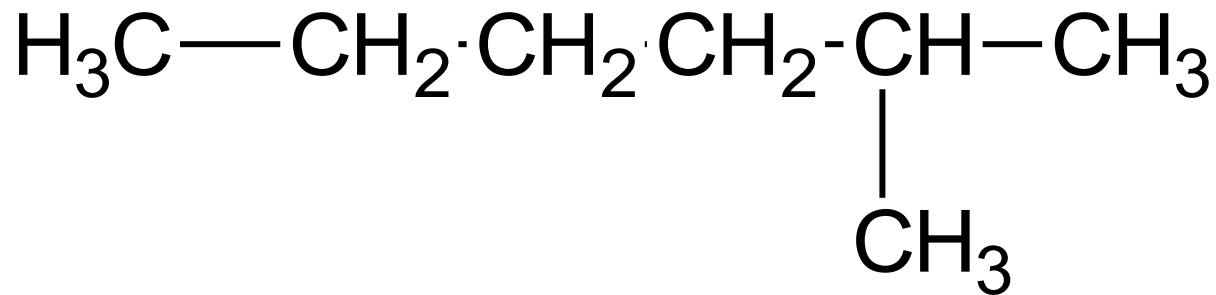
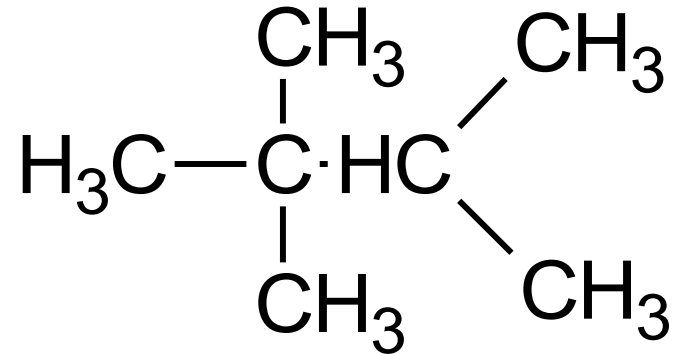
4. Trong các đồng phân: (I) n-pentan; (II) izopentan; (III) neopentan:  $t^{\circ}_s$  thấp nhất?



Phân nhánh nhiều nhất:  $t^{\circ}_s$  thấp nhất

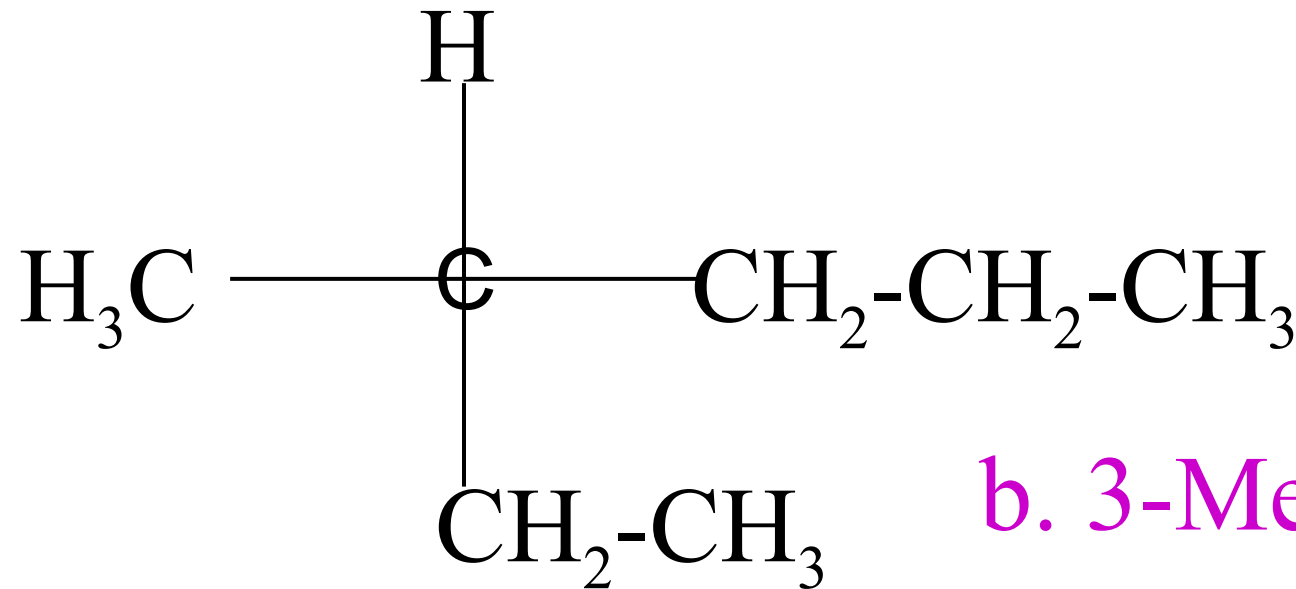
c. (III)

## 5. Chất có $t^{\circ}_s$ cao nhất?

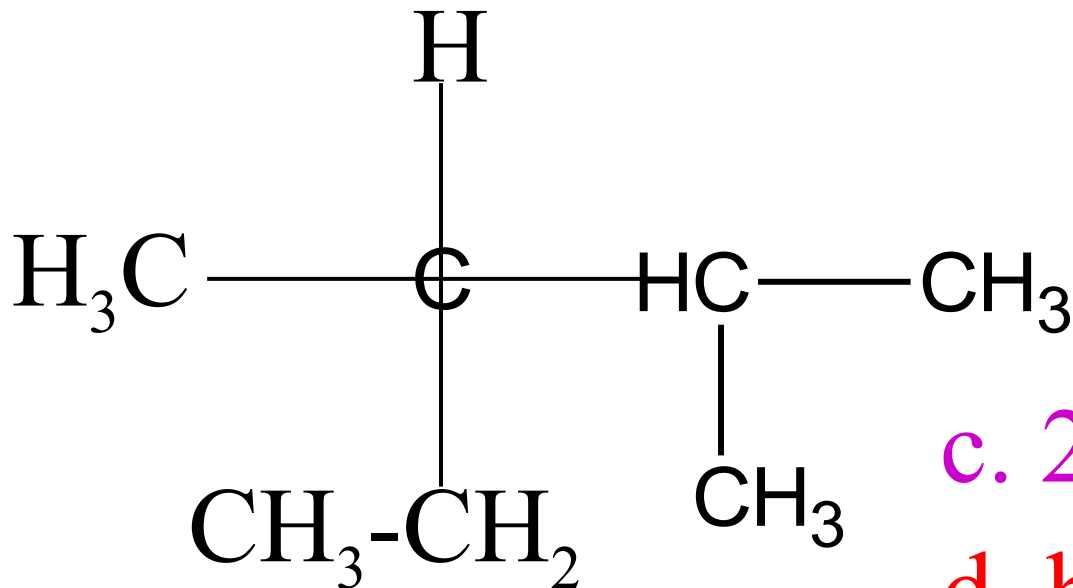


Câu a

## 7. Tên gọi ankan ít C nhất có 1C\*



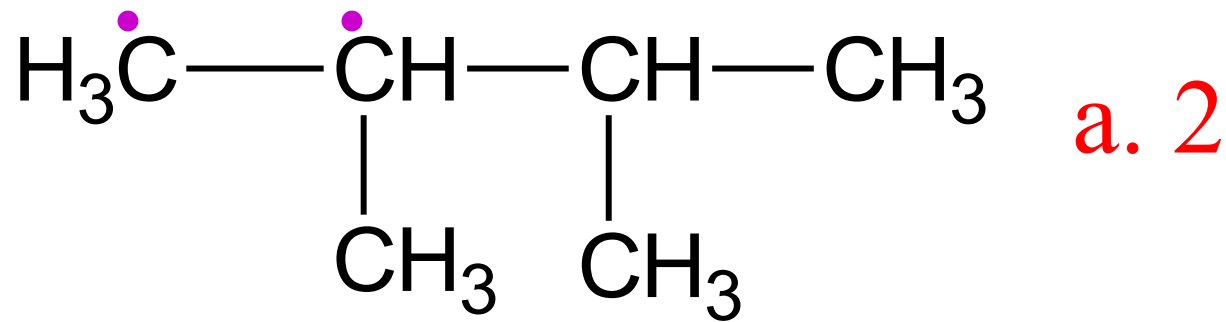
b. 3-Metylhexan



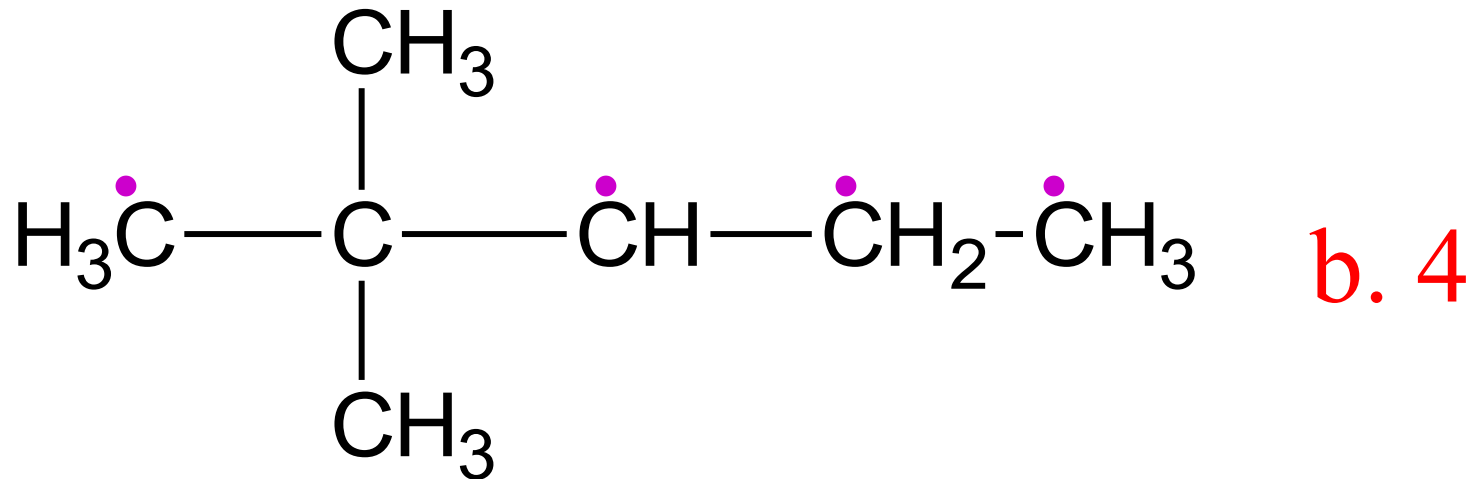
c. 2,3-Dimetylpentan

d. b và c đúng

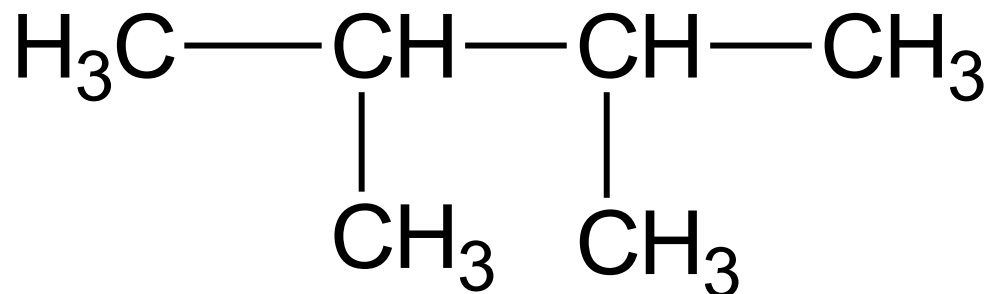
8. Số sp monoclo hóa của 2,3-Dimetylbutan:



9. Số sp monoclo hóa: 2,2-Dimetylpentan

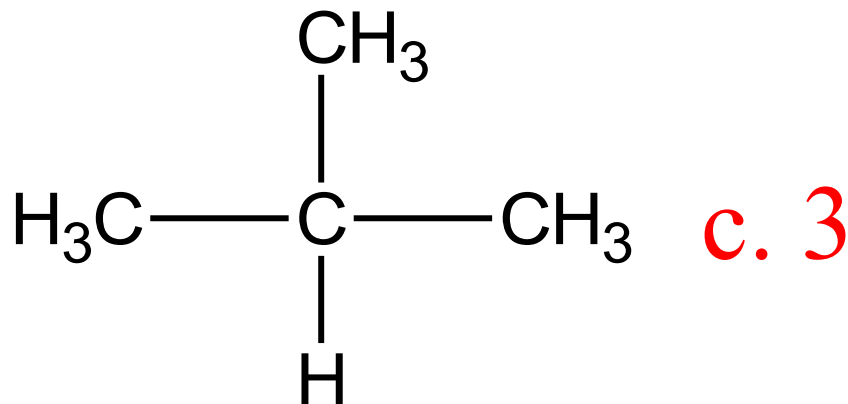


10. Số sp diclo hóa: 2,3-dimetylbutan



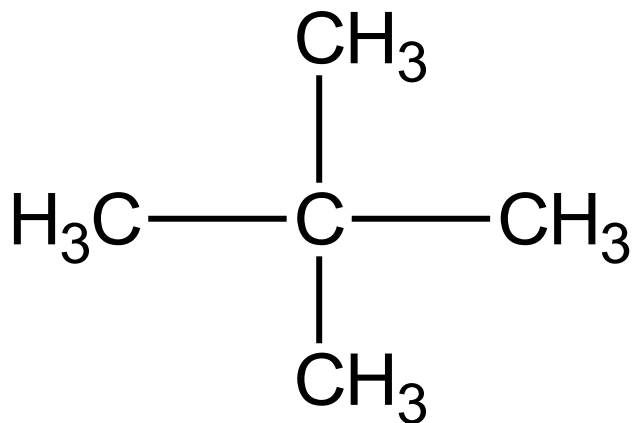
a. 6

11. Số sp diclo hóa:



c. 3

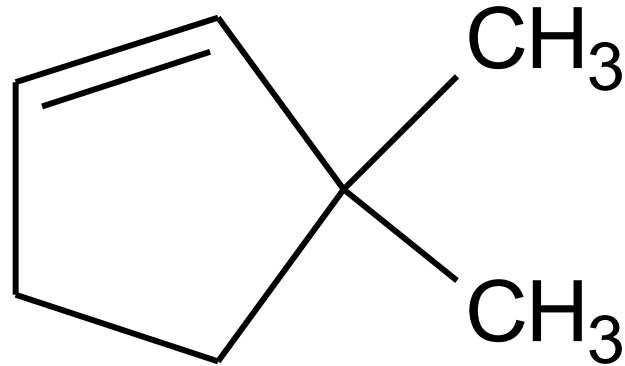
12.  $\text{C}_2\text{H}_5$  chỉ cho 1 sp monoclo khi clo hóa



c. neopentan

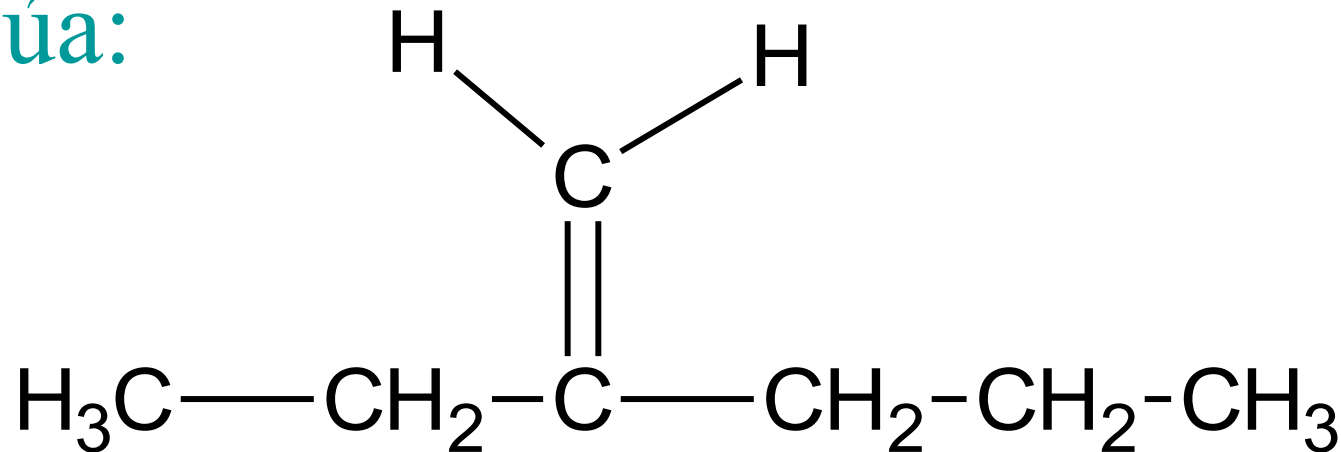
## B. Anken

13. Tên gọi của:



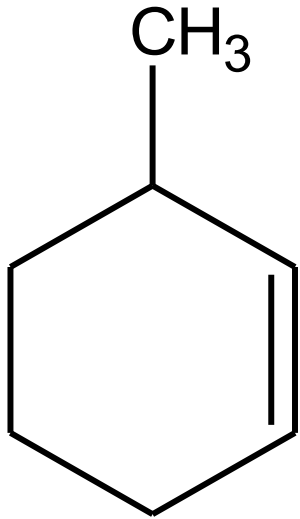
d. 3,3-Dimetylcyclopenten

14. Tên gọi của:



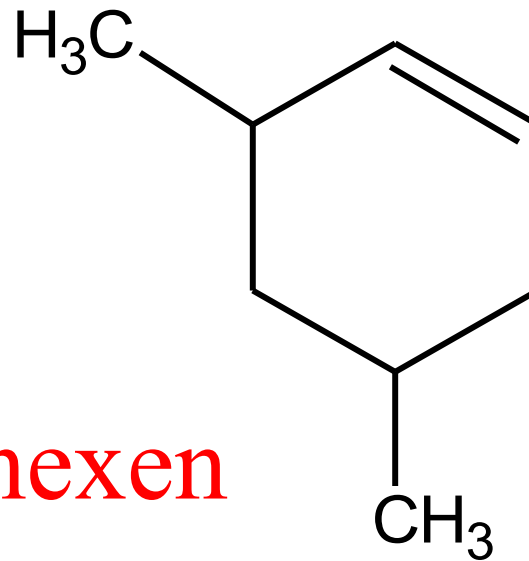
d. 2-Etylpenten-1

15. Tên gọi của:



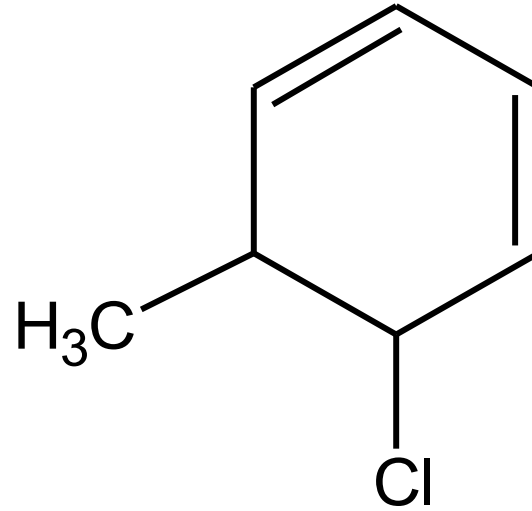
d. 3-Metylxiclohexen

16. Tên gọi của:



d. 3,5-Dimetylxiclohexen

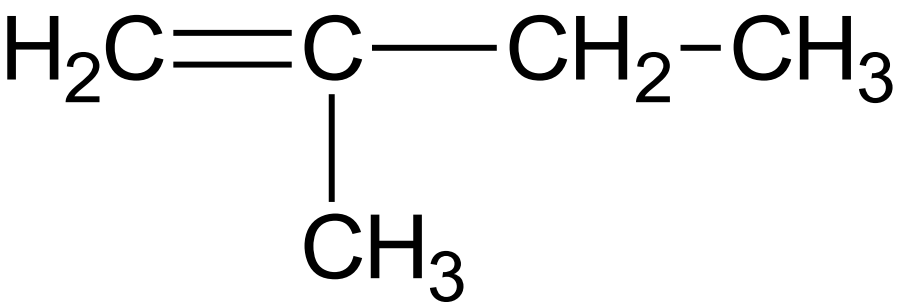
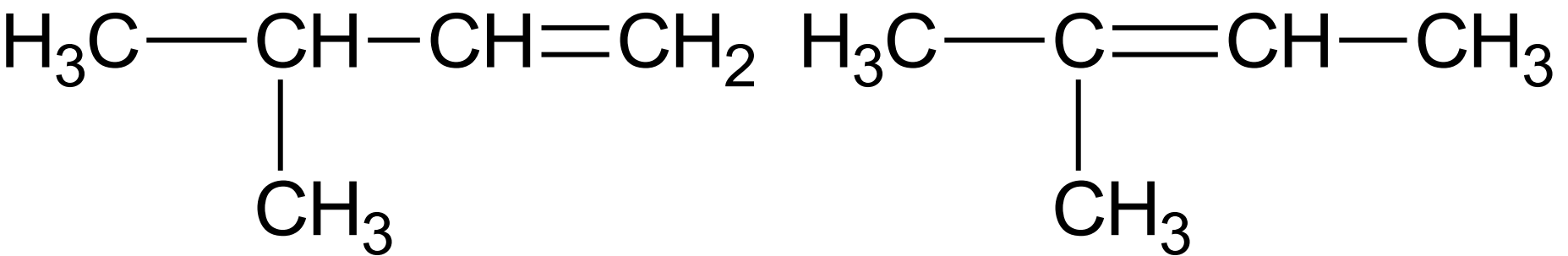
17. Tên gọi của:



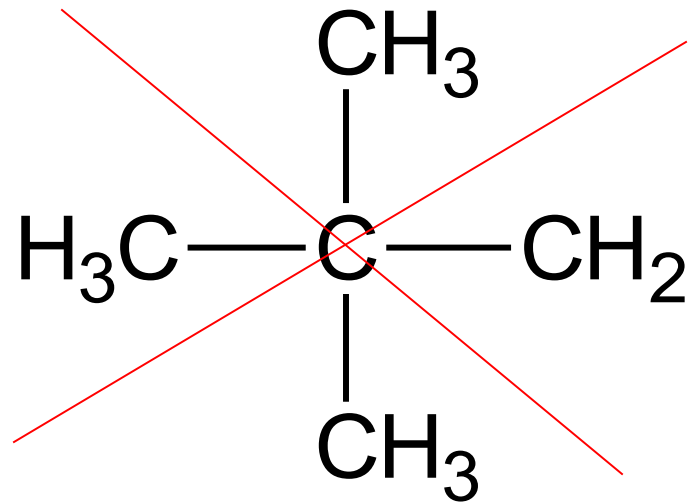
a. 5-clo-6-metylciclohexadien-1,3



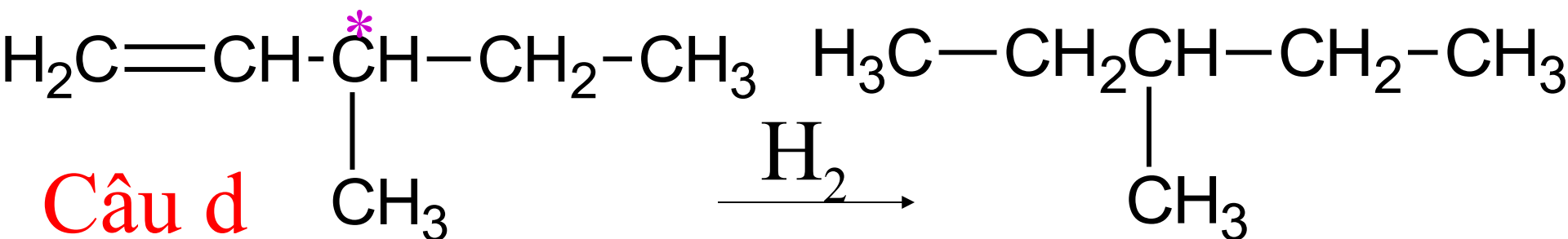
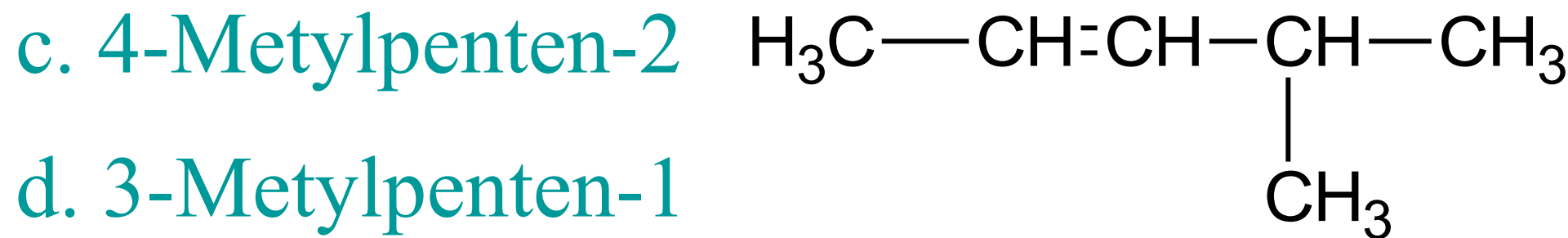
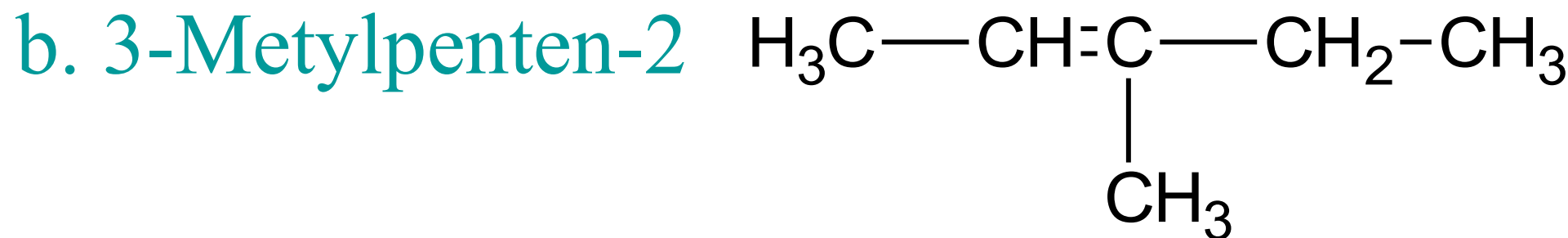
18. Anken  $C_5H_{10}$  có bao nhiêu đồng phân?



c. 6

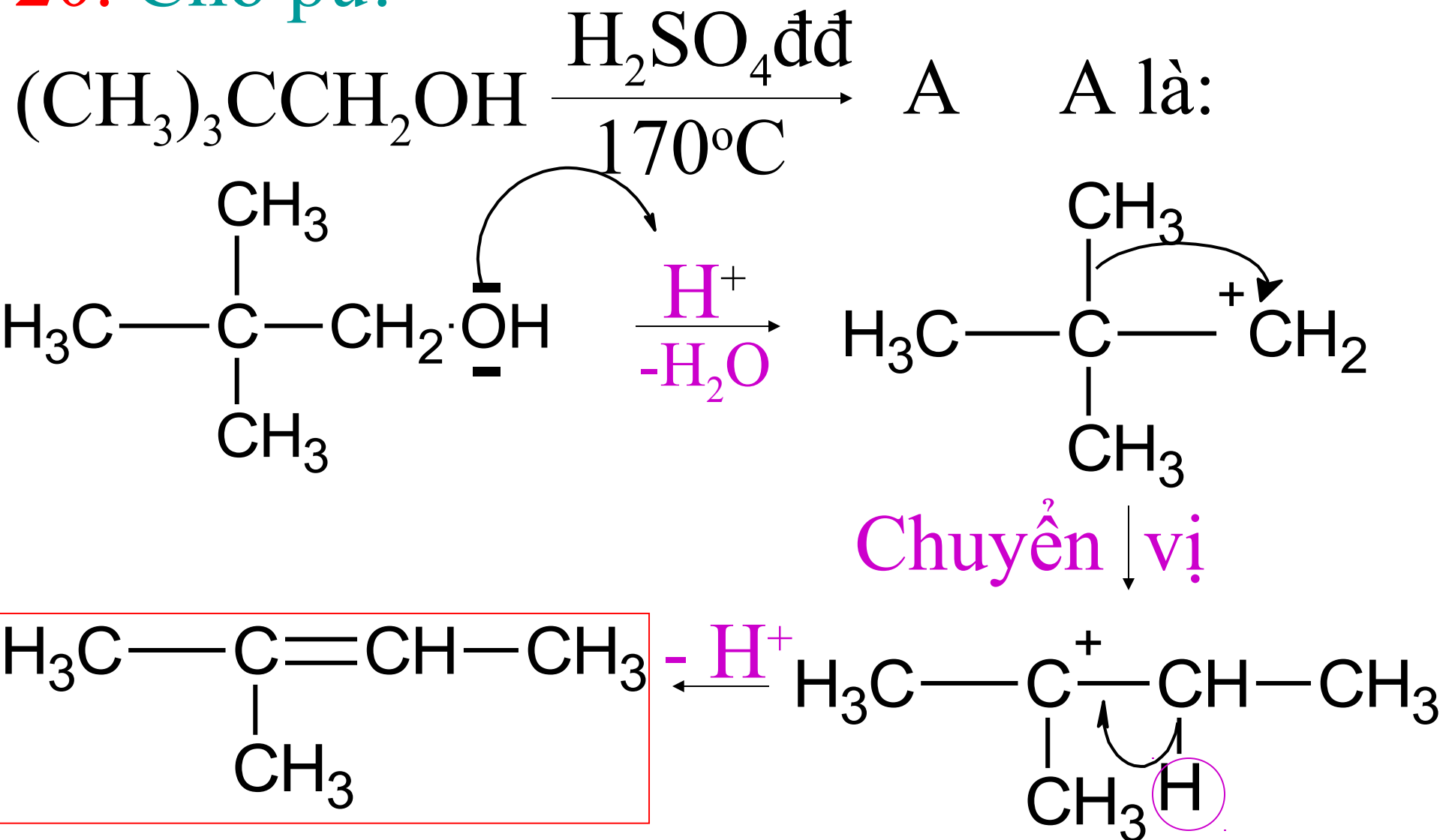


19.  $C_6H_{12}$  có tính quang hoạt, Hydro hóa A được B không có tính quang hoạt. A là:



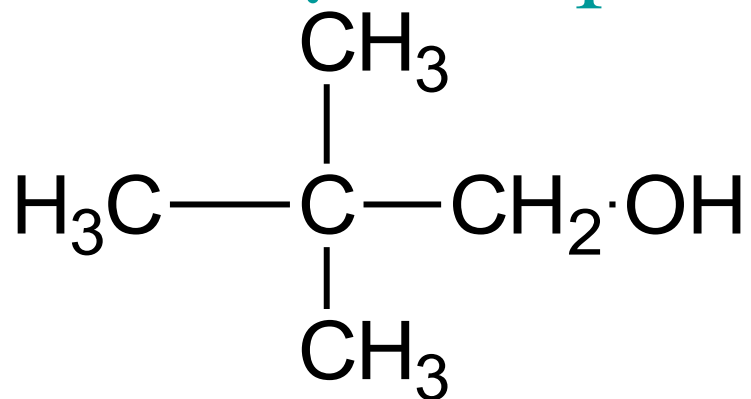
Câu d

20. Cho pư:



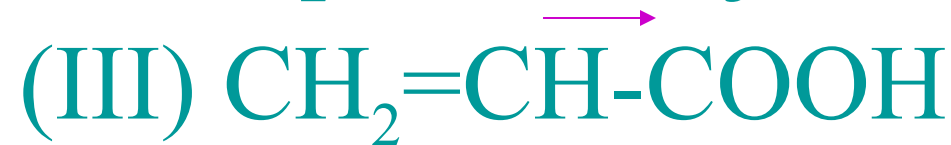
Câu (a)

21. Cho pư:



Giống câu 20: (a)

22. Khả năng pư với  $\text{Br}_2$  giảm dần:

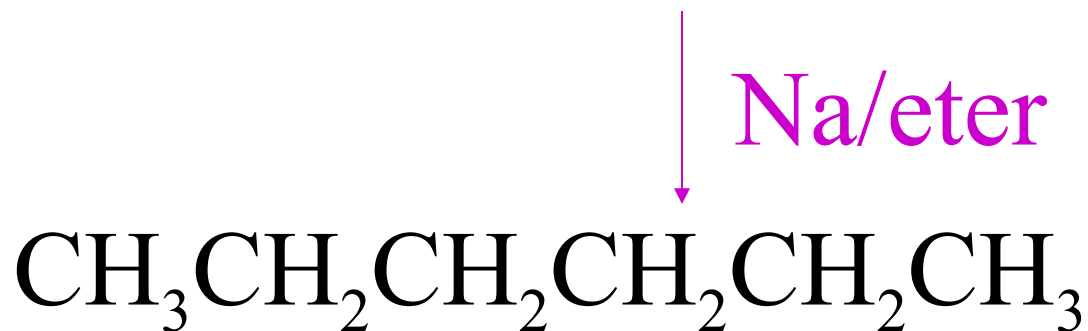


d. (II) > (I) > (IV) > (III)

23. Cho chuỗi pư:



A và B lần lượt là:



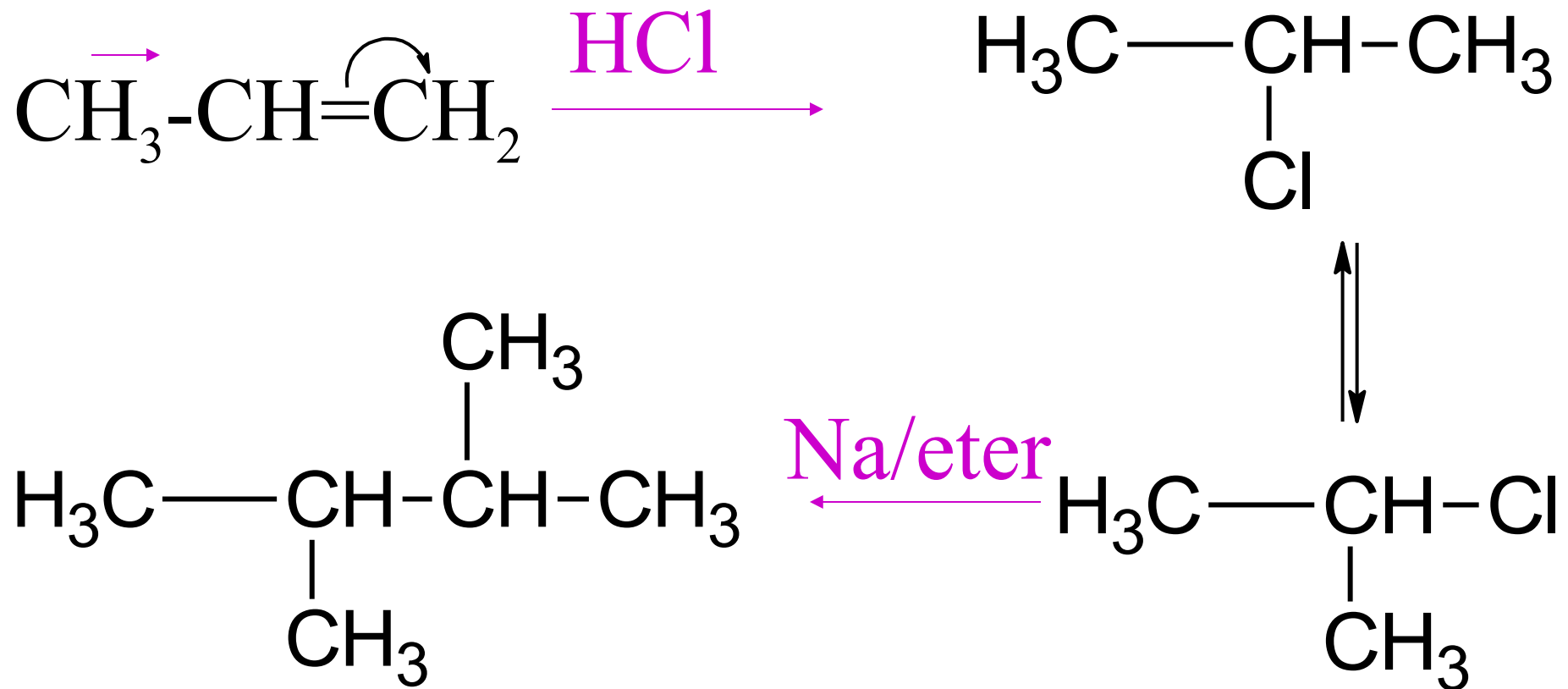
n- hexan

(a)

24. Cho chuỗi pư:

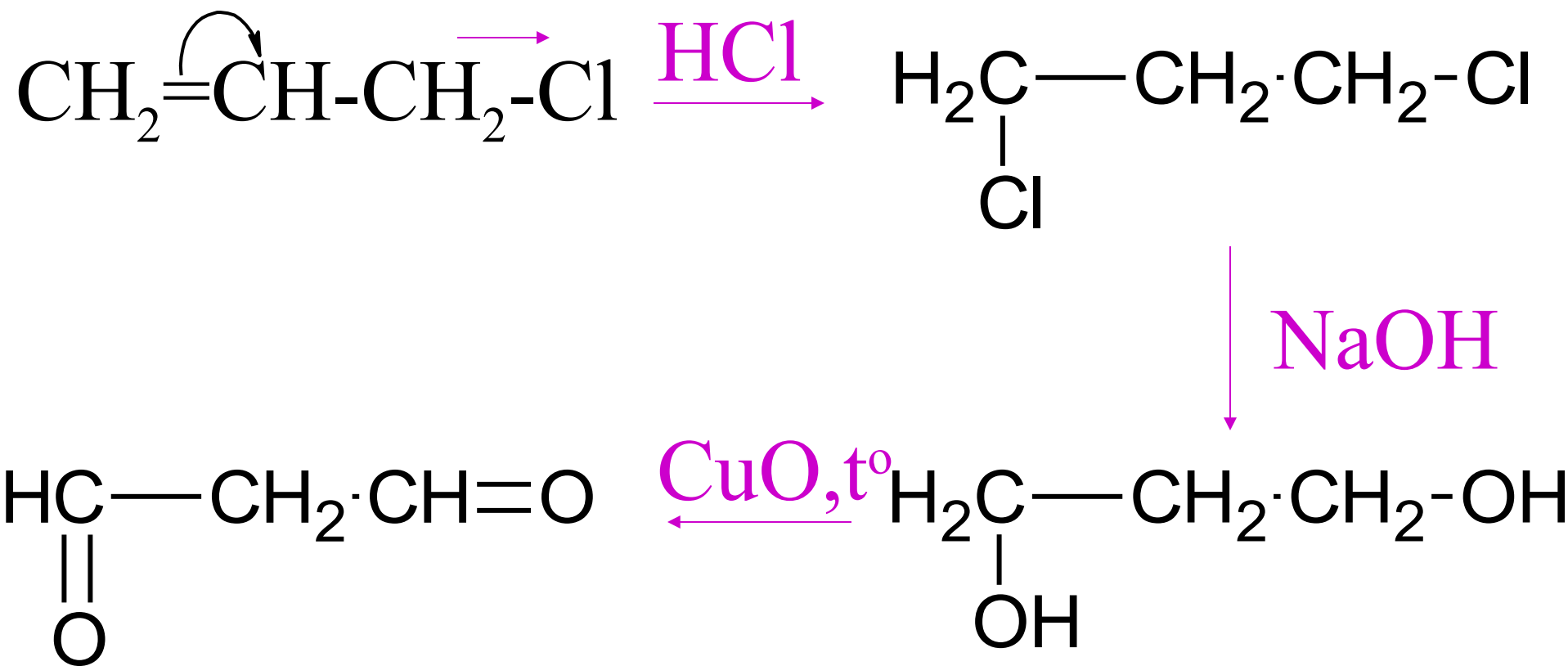


A và B lần lượt là:



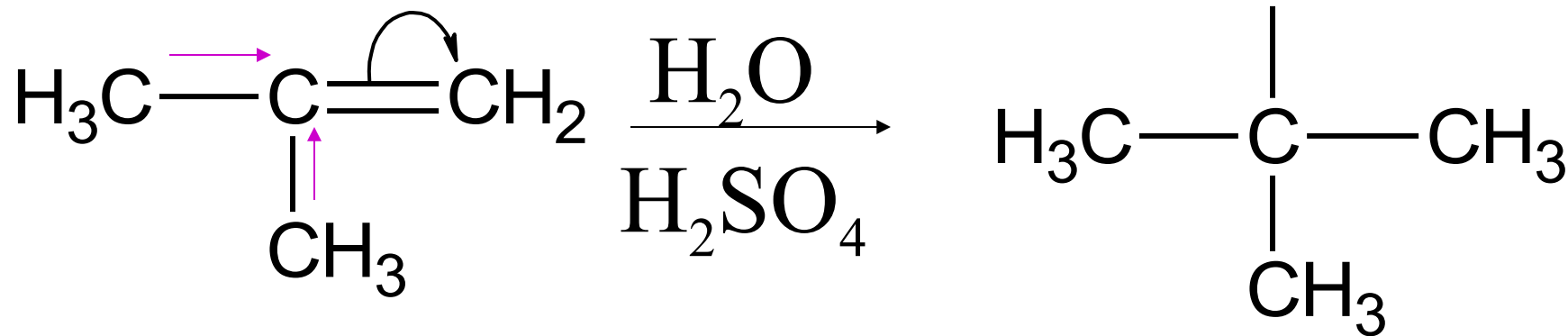
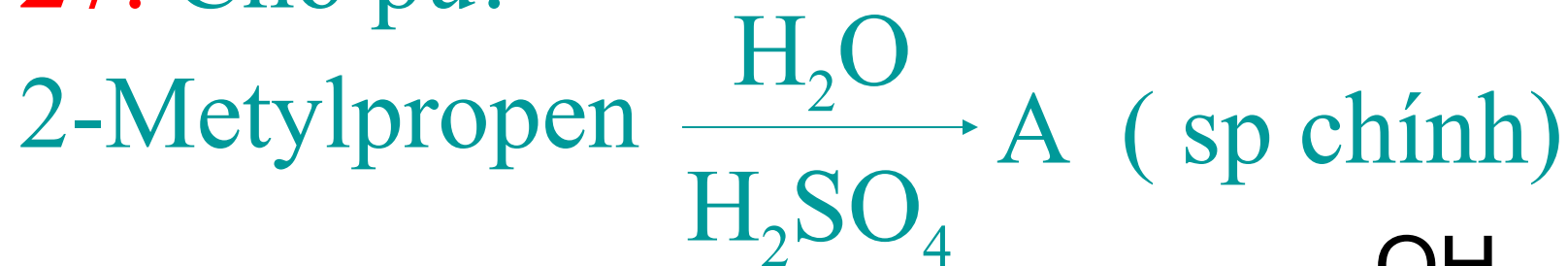
b. Izopropyl clorur và 2,3-Dimetylbutan

25. Cho pu:



(a)

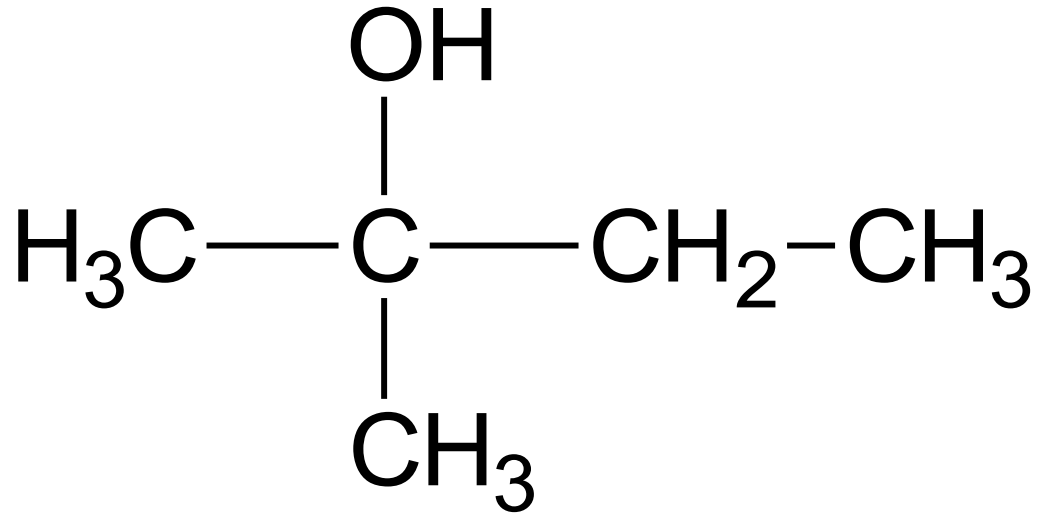
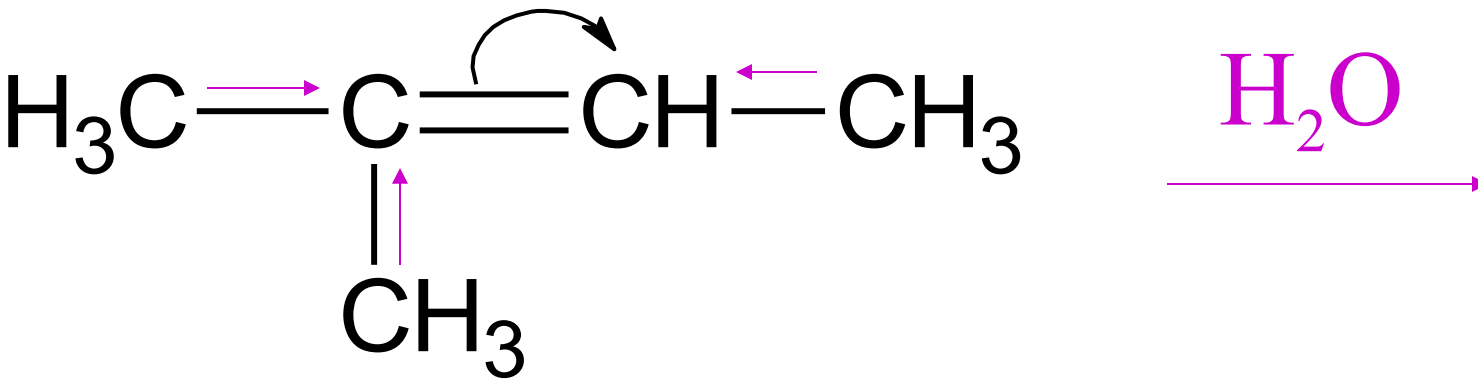
27. Cho pu:



d. 2-Metylpropanol-2

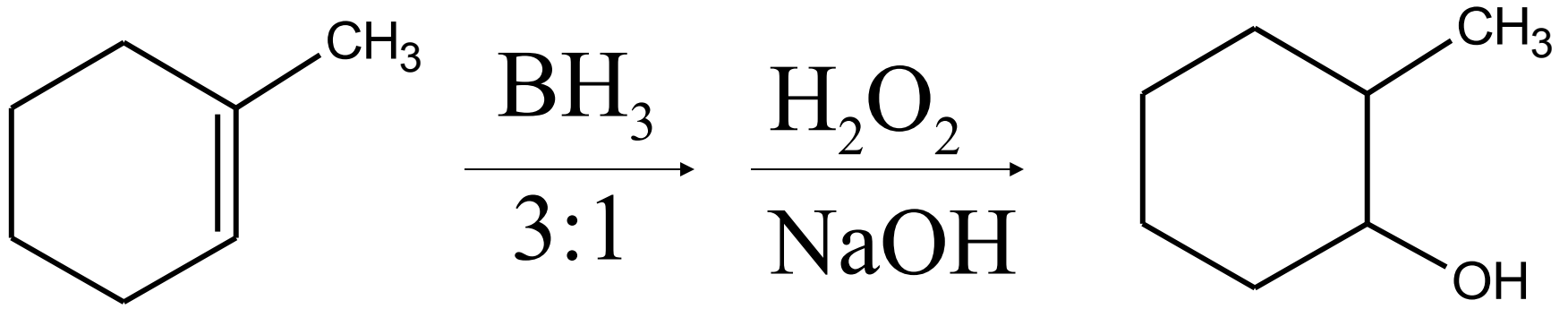


## 28. Sp chính khi hydrat hóa 2-Metylbuten-2



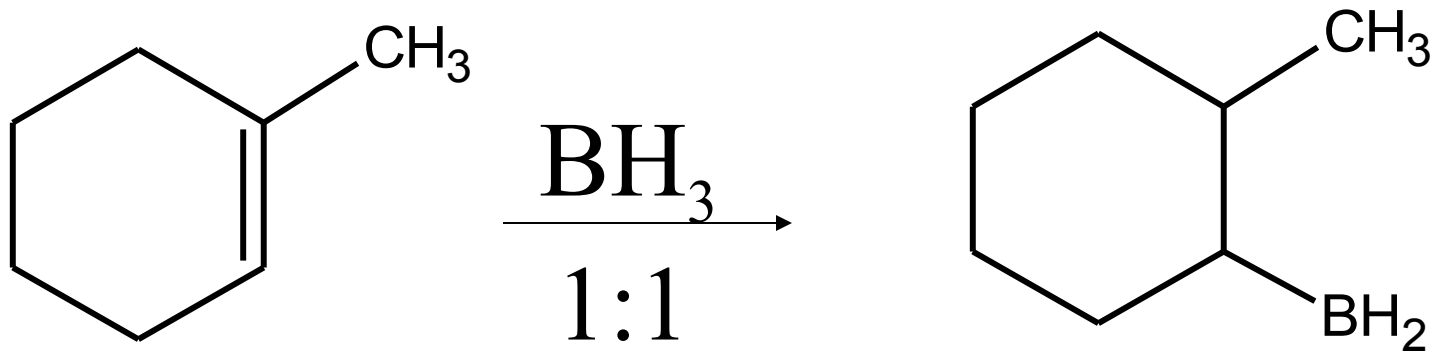
(a)

## 29. Sản phẩm của pư:



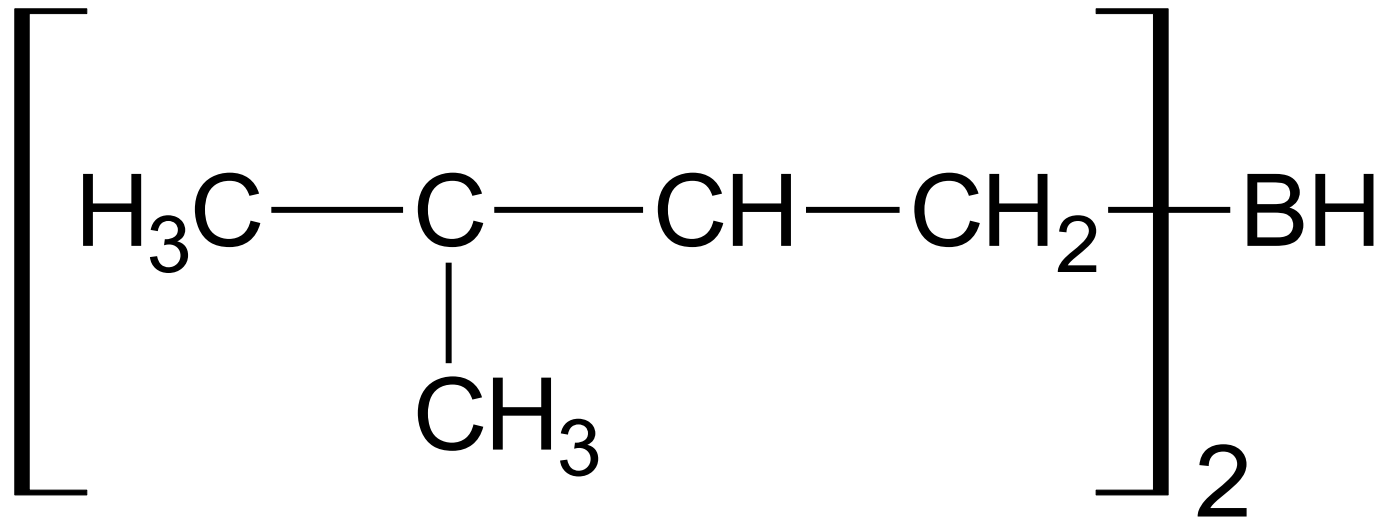
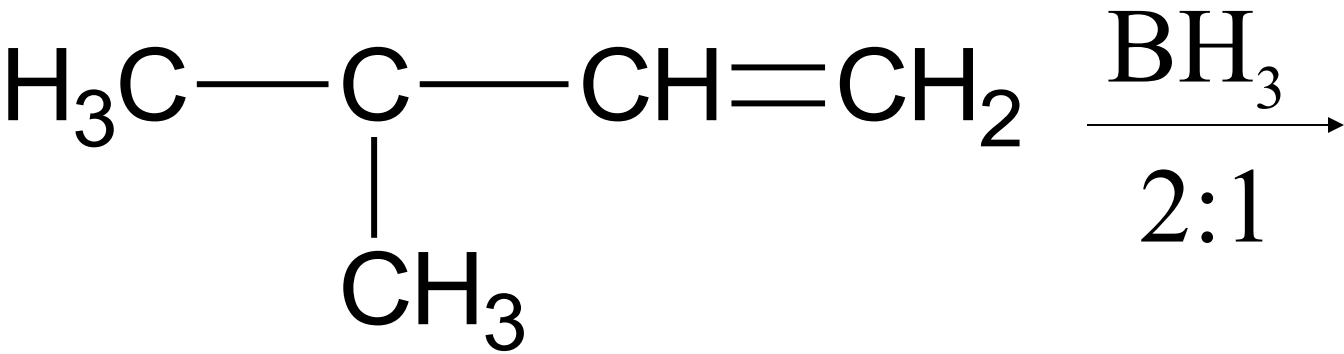
(b)

## 30. Sp của pư



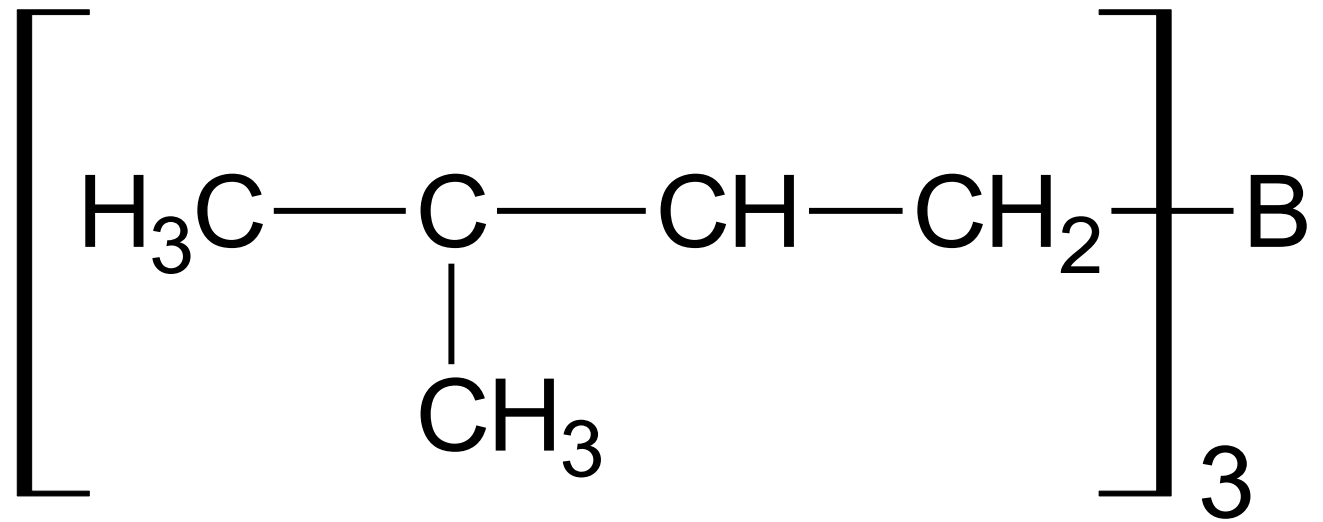
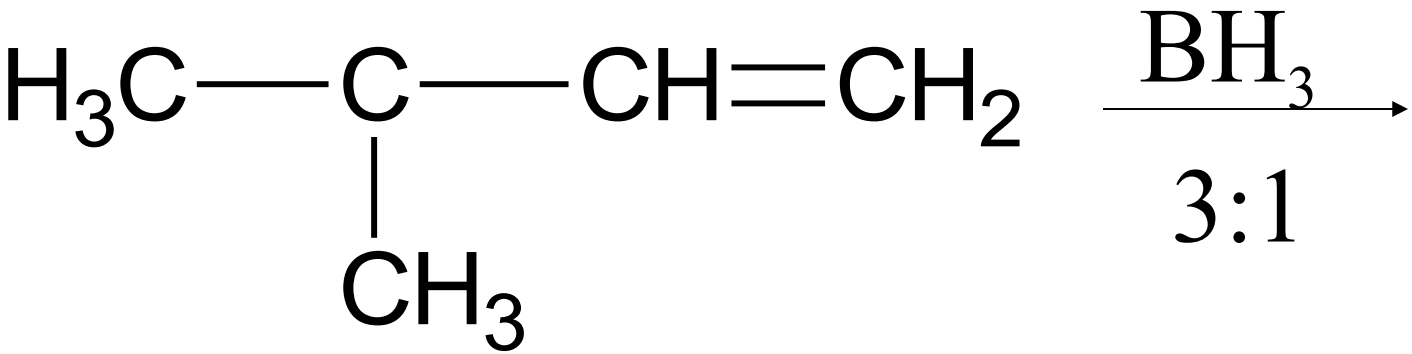
(d)

### 31. Sản phẩm của pư:



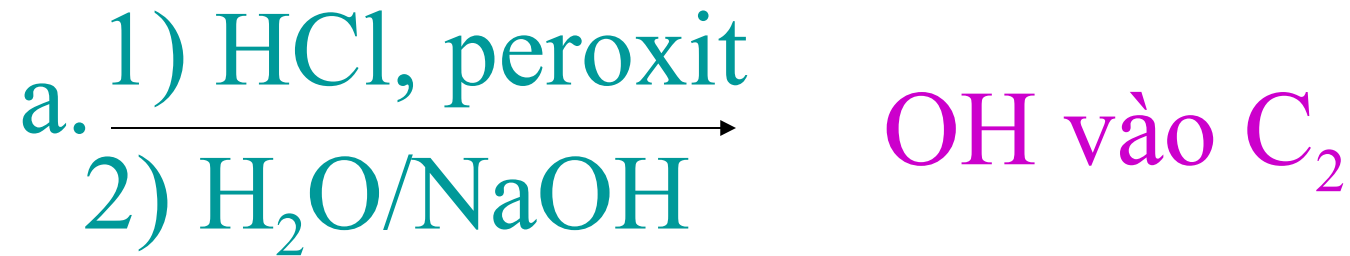
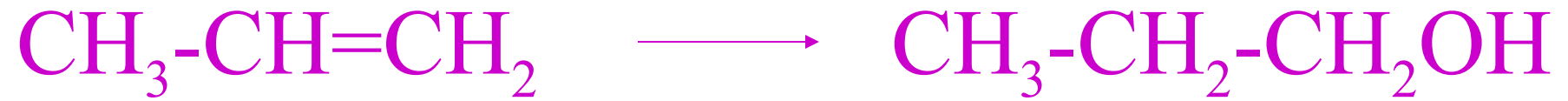
(c)

### 32. Sản phẩm của pư:



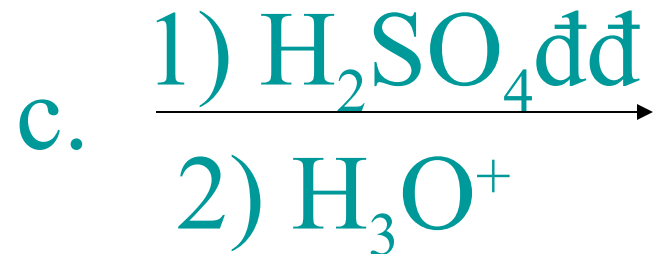
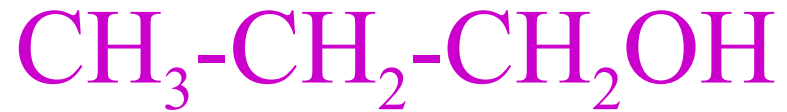
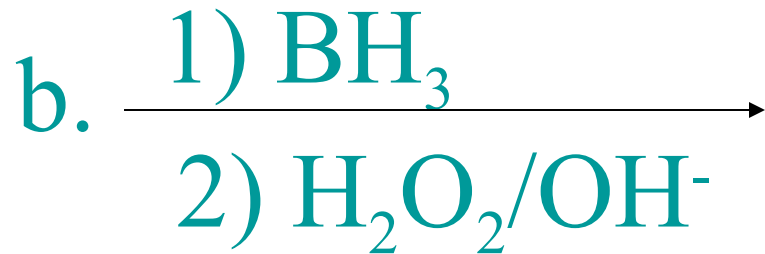
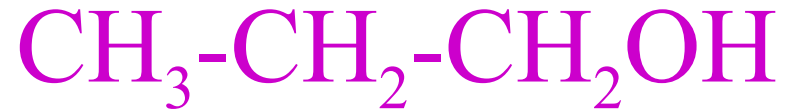
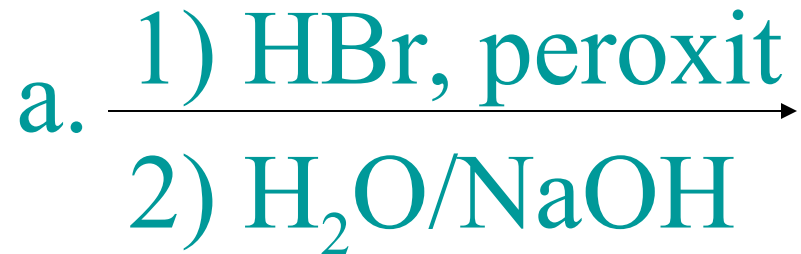
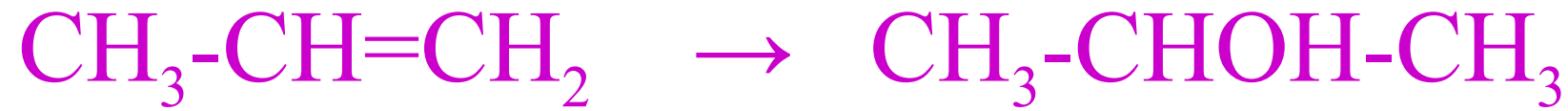
(c)

33. Propen  $\rightarrow$  propanol-1 ?



d. Cả a và b

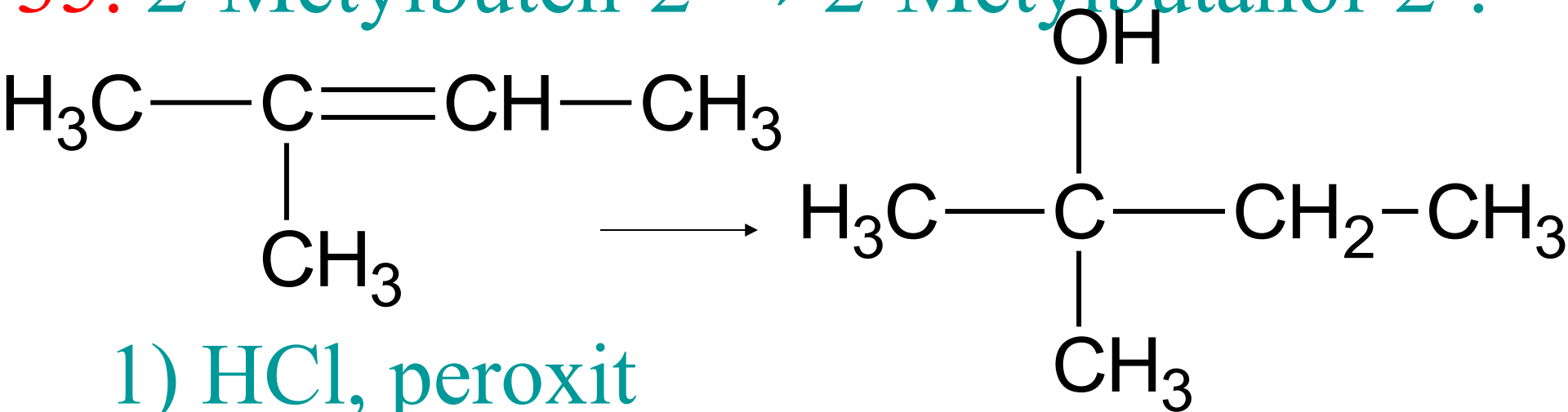
### 34. Propen $\rightarrow$ Propanol-2 ?



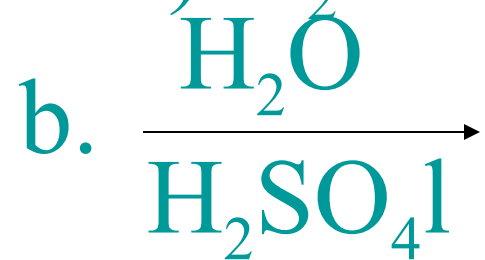
d. Tất cả đều sai

Câu (c)

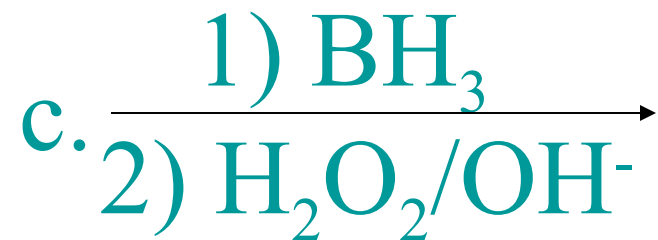
### 35. 2-Metylbuten-2 $\rightarrow$ 2-Metylbutanol-2 ?



OH vào  $\text{C}_2$



OH vào  $\text{C}_2$

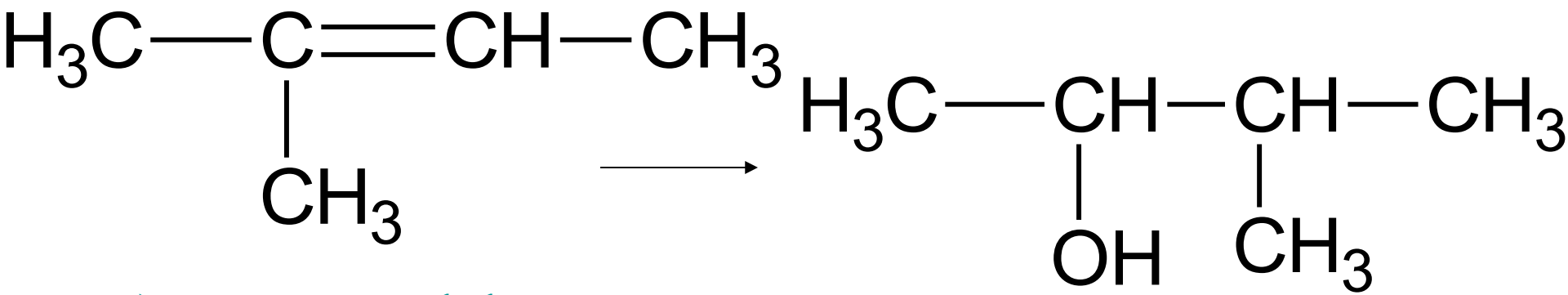


OH vào  $\text{C}_1$

d. Cả a và b

Câu (d)

### 36. 2-Metylbuten-2 $\rightarrow$ 3-Metylbutanol-2 ?



a.  $\xrightarrow{1) \text{H}_2\text{SO}_4 \text{ đđ}}$  OH vào C nhiều nhóm thế

2)  $\text{H}_3\text{O}^+$   
b.  $\xrightarrow[\text{H}_2\text{SO}_4]{\text{H}_2\text{O}}$  OH vào C nhiều nhóm thế

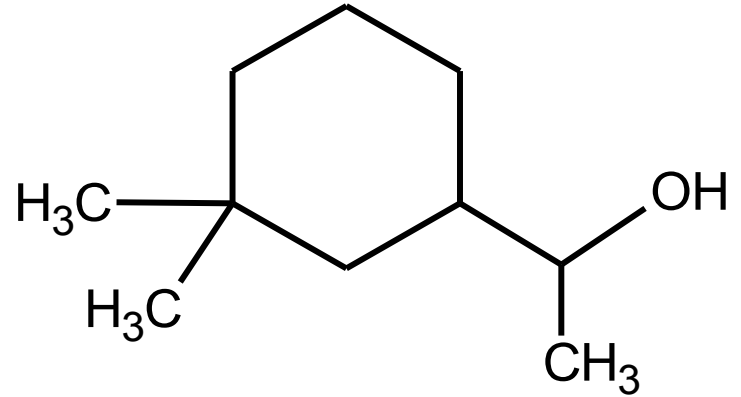
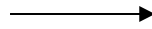
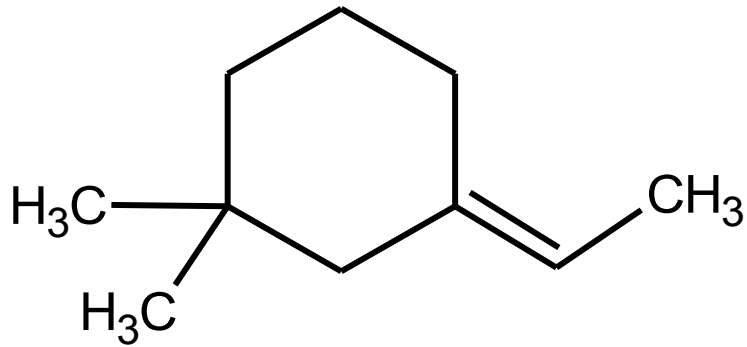
c.  $\xrightarrow[2) \text{H}_2\text{O}/\text{NaOH}]{1) \text{HBr, peroxit}}$  OH vào C ít nhóm thế

d. Cả a và b

Câu c



# 37. Dùng tác chất nào?



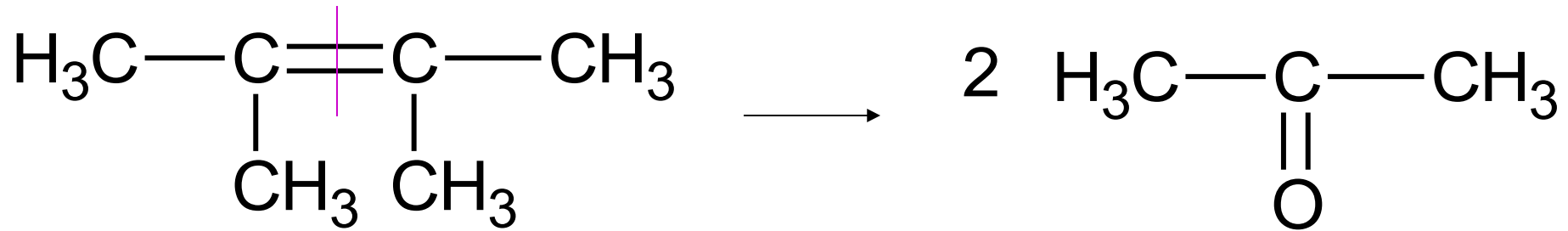
a.  $\xrightarrow[2) \text{H}_2\text{O}/\text{NaOH}]{1) \text{HCl, peroxit}}$  OH vào C nhiều nhóm thế

b.  $\xrightarrow[2) \text{H}_2\text{O}_2/\text{OH}^-]{1) \text{BH}_3}$  OH vào C ít nhóm thế

c.  $\xrightarrow[\text{H}_2\text{SO}_4]{\text{H}_2\text{O}}$  OH vào C nhiều nhóm thế

d. Cả a và b **Câu ( b )**

38. Sp của pư ozon giải 2,3-Dimetylbuten-2



Câu (b)

39. Ozon giải A chỉ thu được acetone, A là:

a. 2,3-Dimetylbuten-2

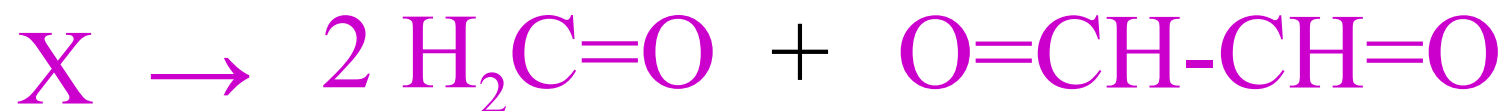
40. Ozon giải B chỉ thu được axetandehit



c. Buten-2

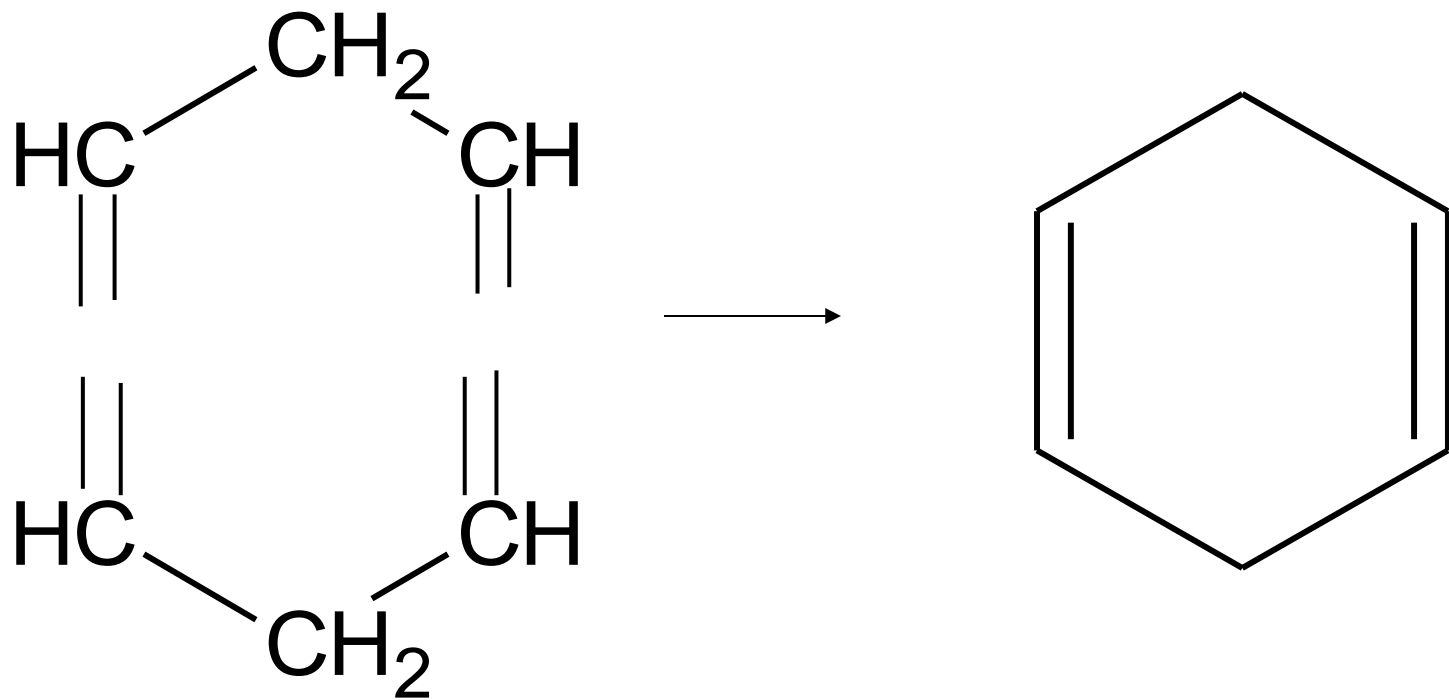


41. Ozon giải 1 mol(X)→2mol HCHO và 1mol (CHO)<sub>2</sub>, tên của X

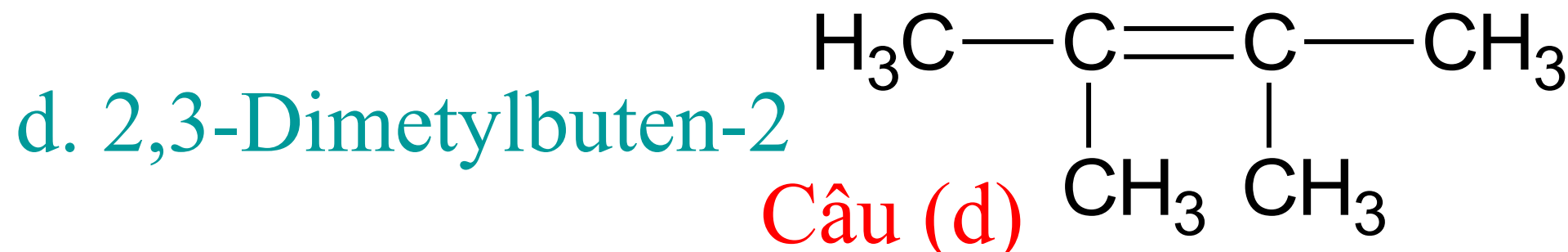
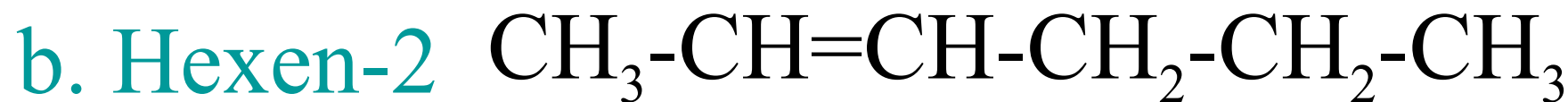
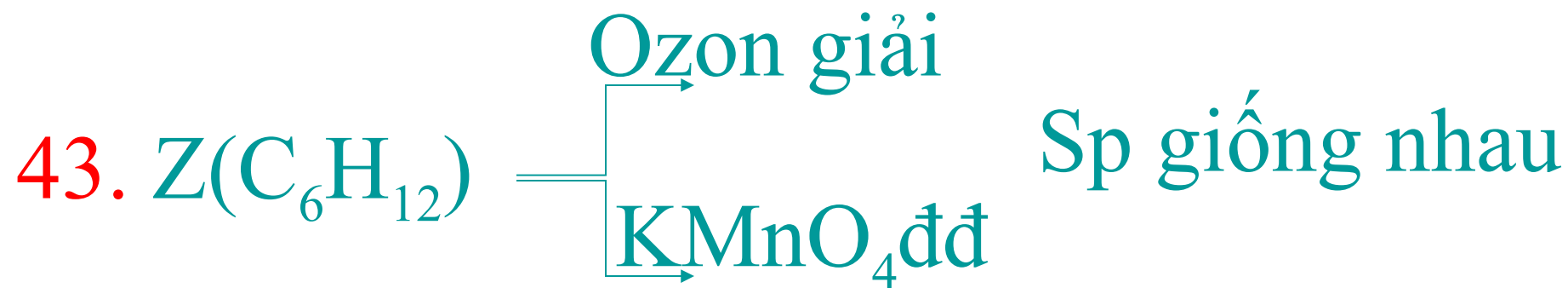


a. Butadien-1,3

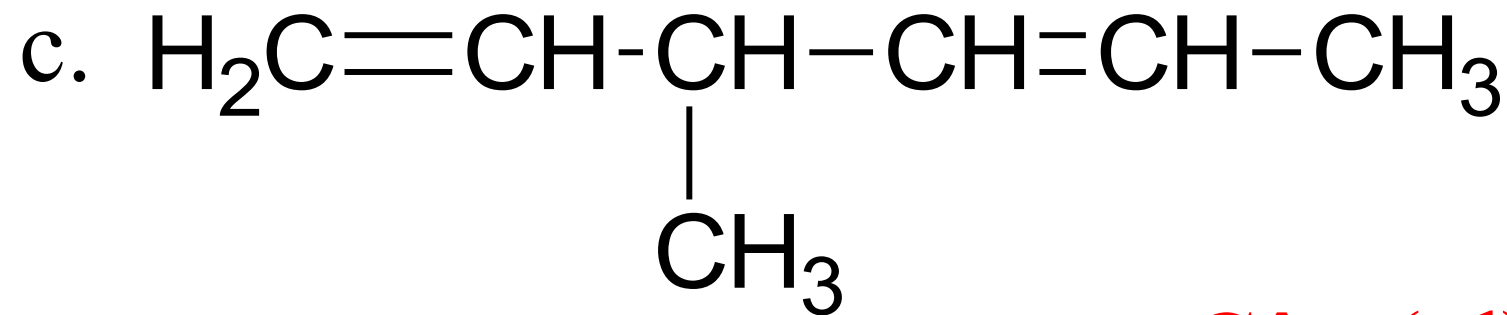
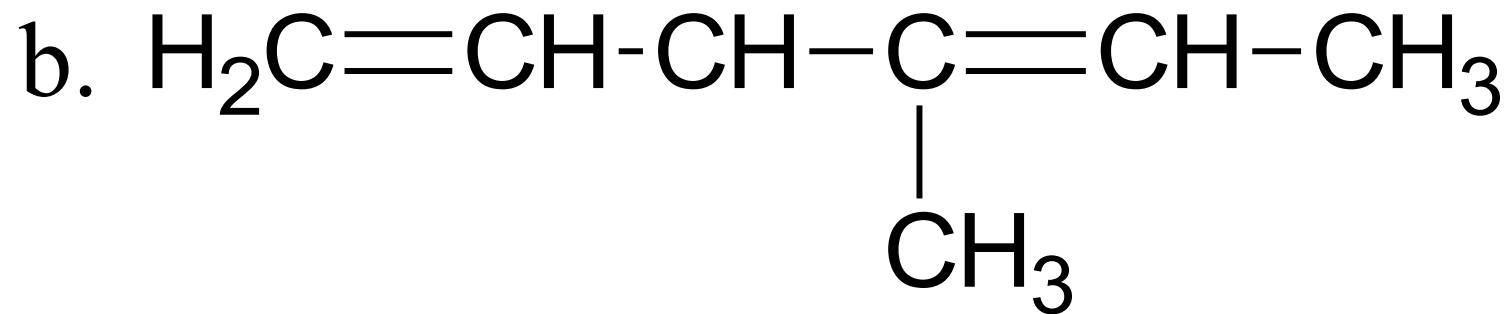
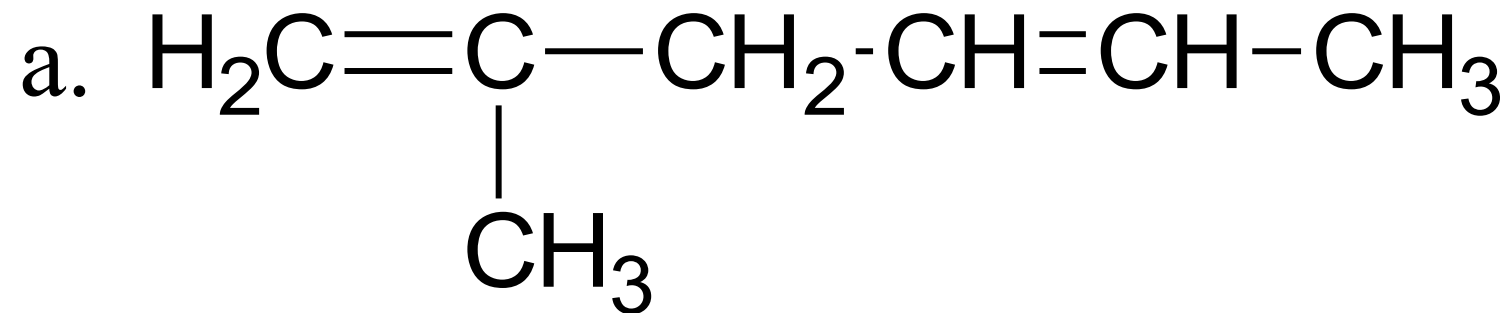
42. Ozon giải 1mol Y  $\rightarrow$  2mol  $\text{CH}_2(\text{CHO})_2$



c. Cyclohexadien-1,4



44. Ozon giải 1 mol A  $\rightarrow$  1 mol formaldehit + 1 mol axetandehit + 1 mol  $\text{CH}_3\text{-CO-CH}_2\text{-CHO}$

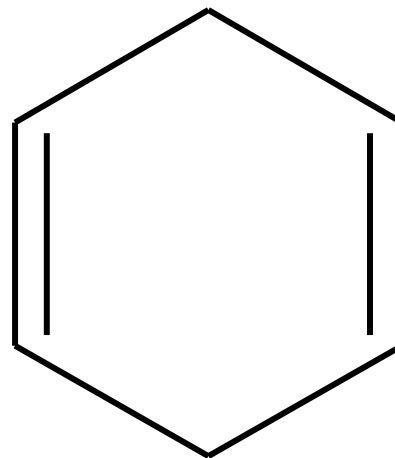
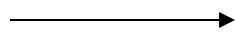
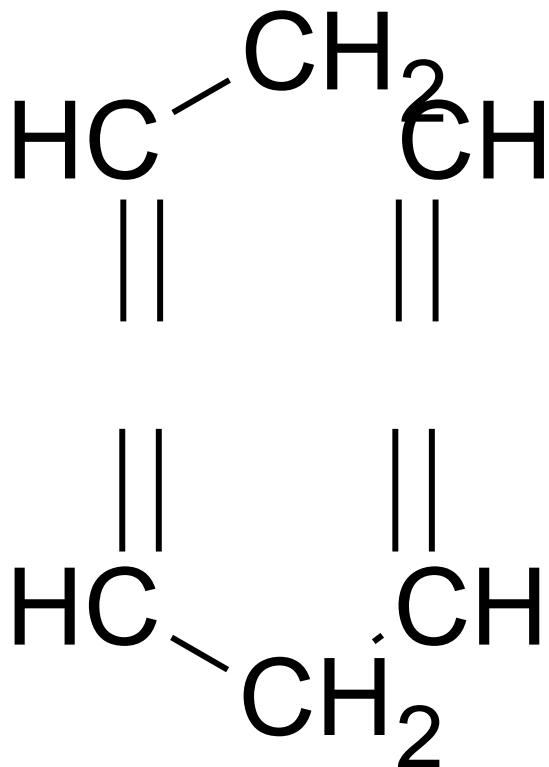


d. a và b đều đúng

Câu ( d )

46. Ozon giải 1 mol anken A  $\rightarrow$  2 mol aldehyd malonic, cơ cấu của A là:

Aldehyd malonic:  $\text{O}=\text{CH}-\text{CH}_2-\text{CH}=\text{O}$

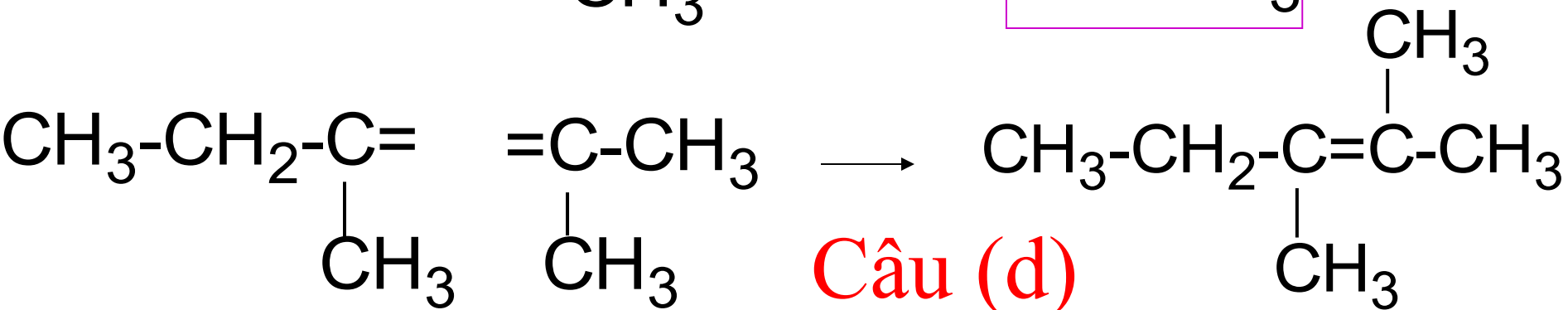
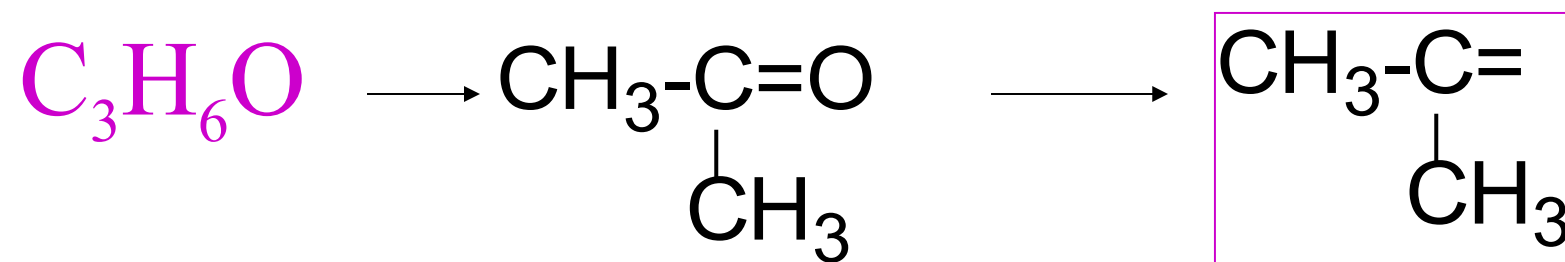
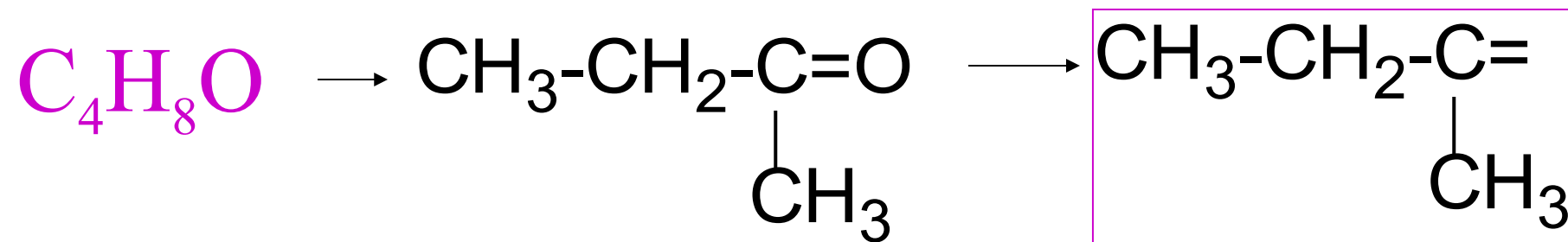


a. 1,4-ciclohexadien

47. Anken  $C_7H_{14}$  cho pư ozon giải và pư oxy hóa bằng  $KMnO_4$  đđ,  $t^\circ$  đều cho 2 sp là:

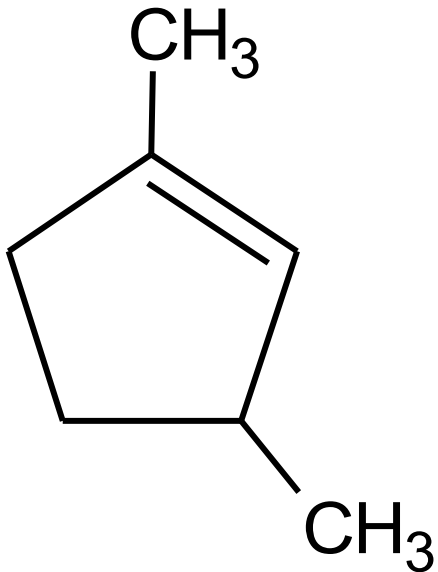
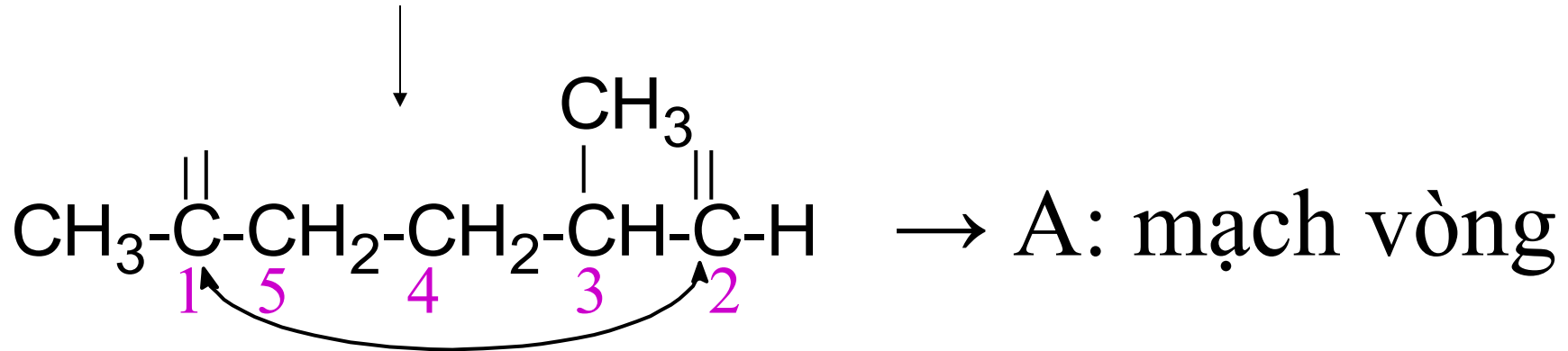
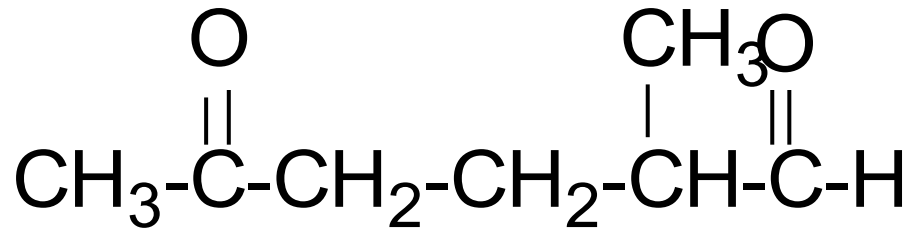
$C_4H_8O$  và  $C_3H_6O$ . Anken là:

$C_4H_8O$  và  $C_3H_6O$  phải là ceton.





48. Chất nào ozon giải cho sp sau:



b. 1,3-Dimethylcyclopenten

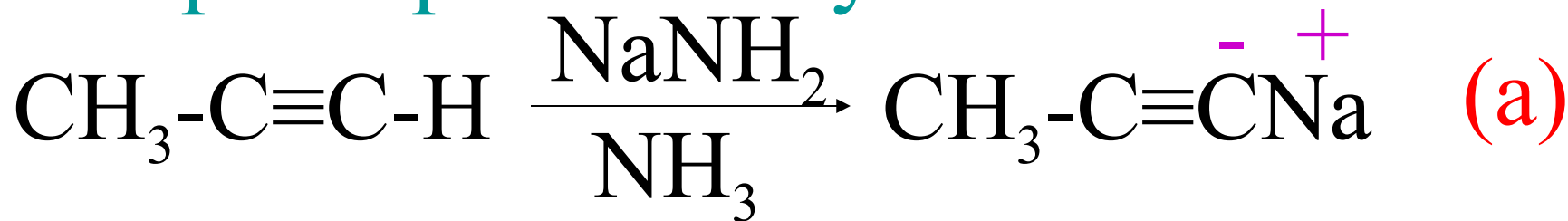
## C. Ankin

49. Sản phẩm của pư dưới đây là:

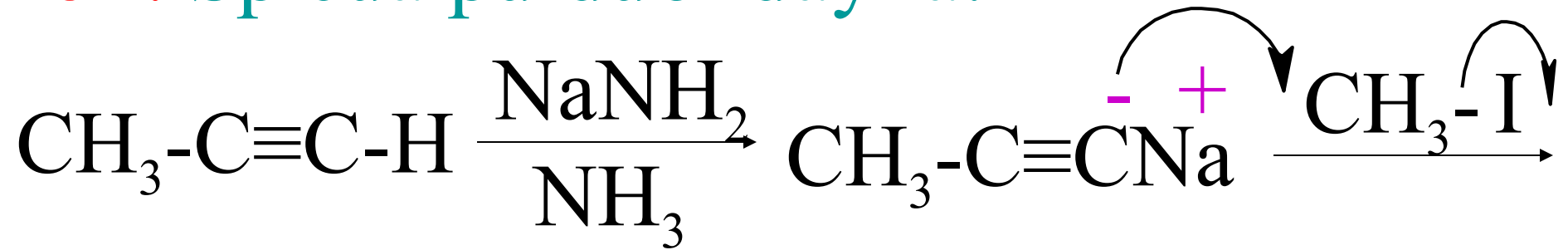


Câu (c)

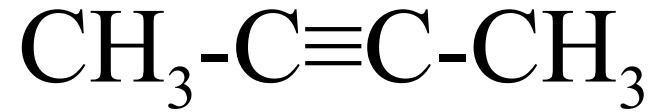
50. Sp của pư dưới đây là:



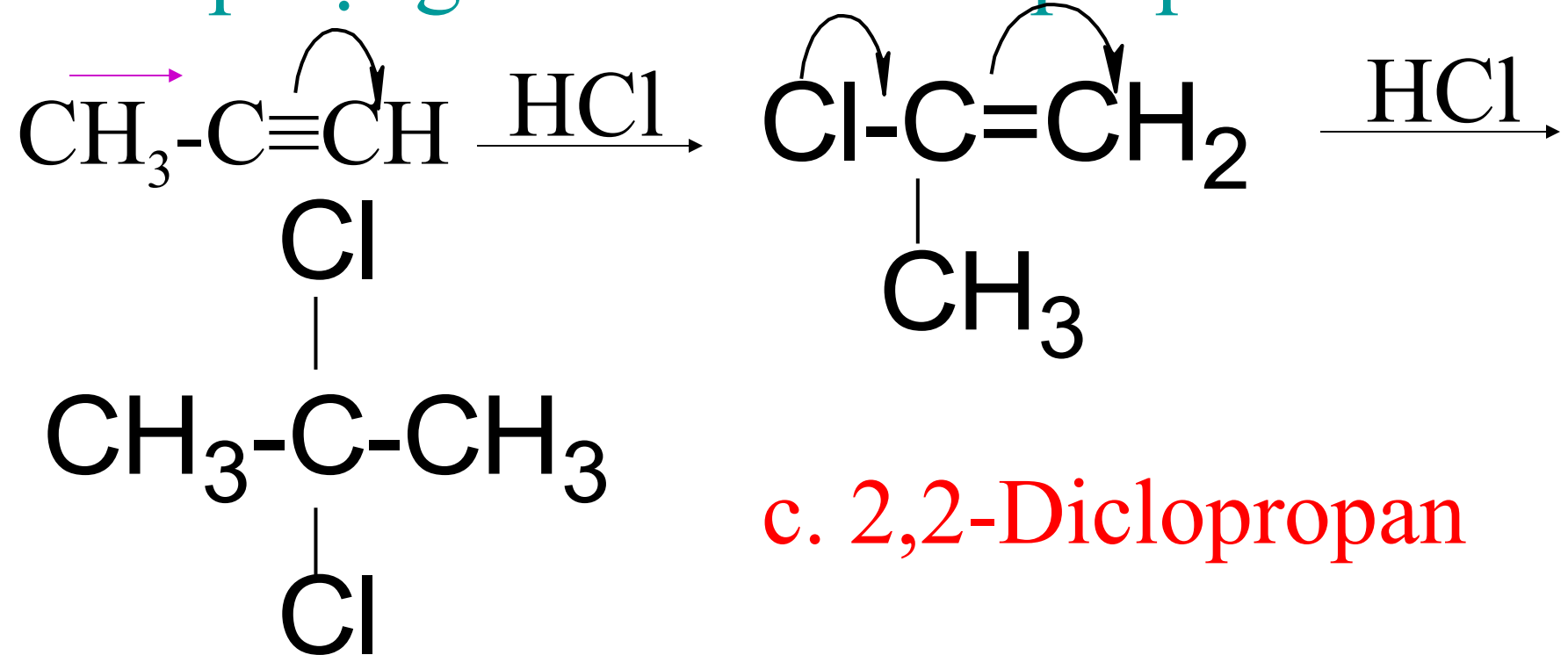
51. Sp của pư dưới đây là:



Câu (d)



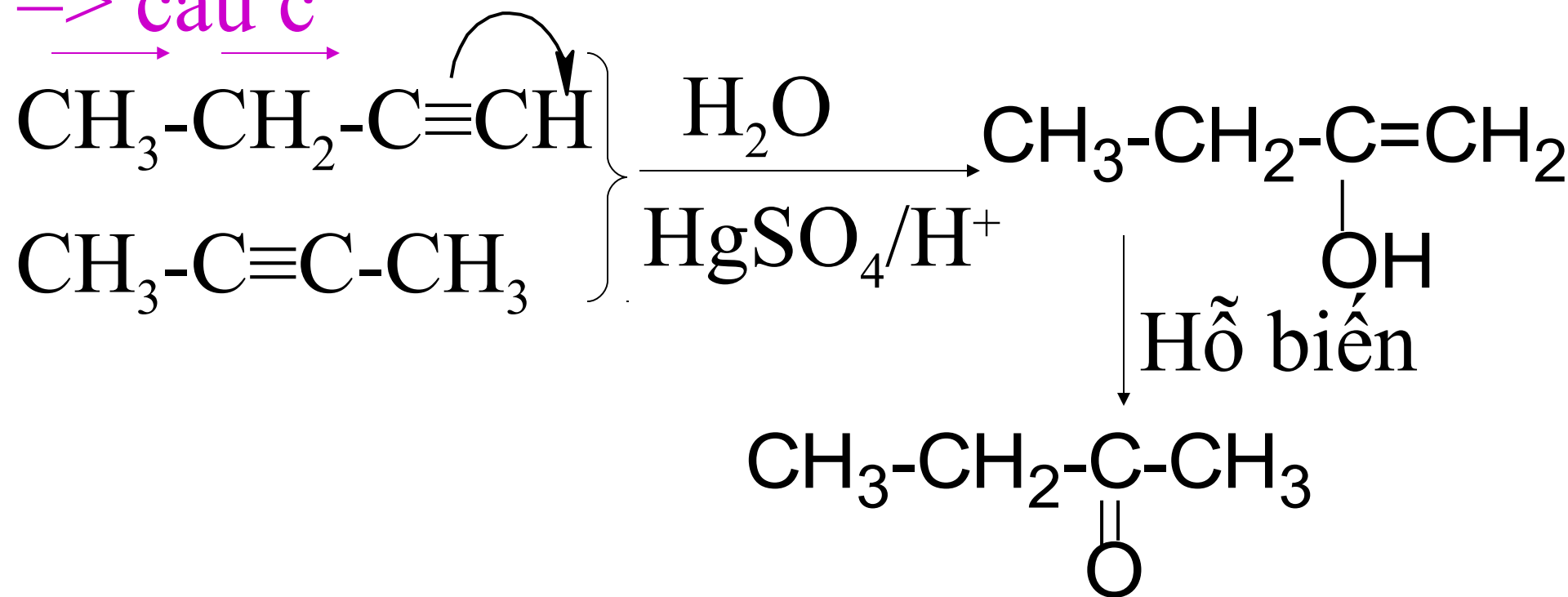
52. Sp cộng 2 lần HCl vào propin:

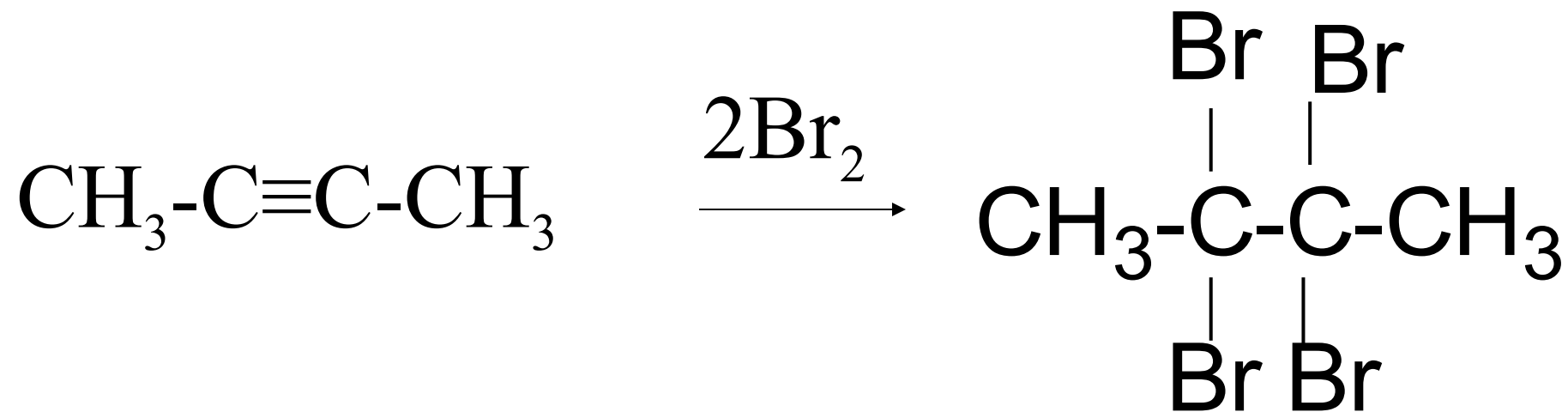
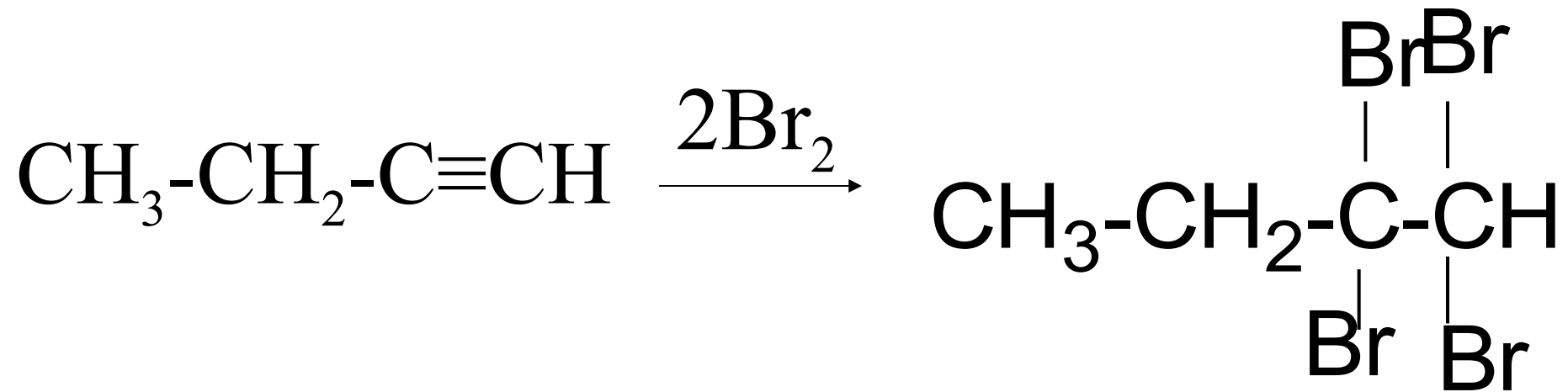


c. 2,2-Diclopropan

53. 2 đồng phân có cùng CTPT là  $C_4H_6$ , khi  
 pư với dd  $HgSO_4/H^+$  thu được cùng  
 sp. Nhưng khi pư với  $Br_2$  dư thu được 2 sp  
 khác nhau, 2 đồng phân này là:

Pư với dd  $HgSO_4/H^+$ : cộng  $H_2O$  vào ankin  
 $\Rightarrow$  câu c



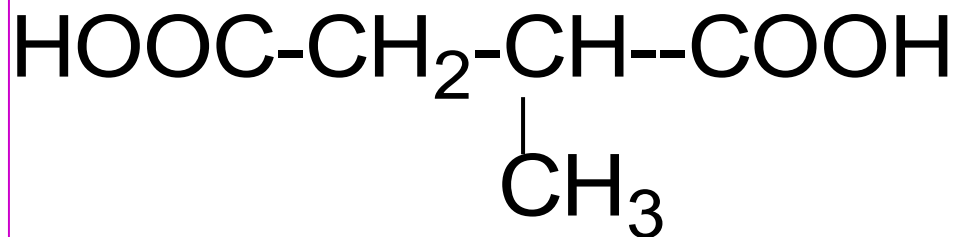
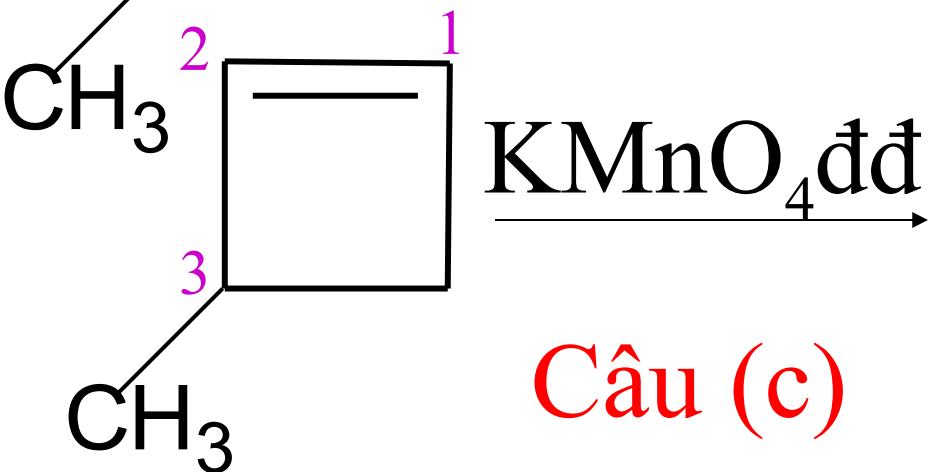
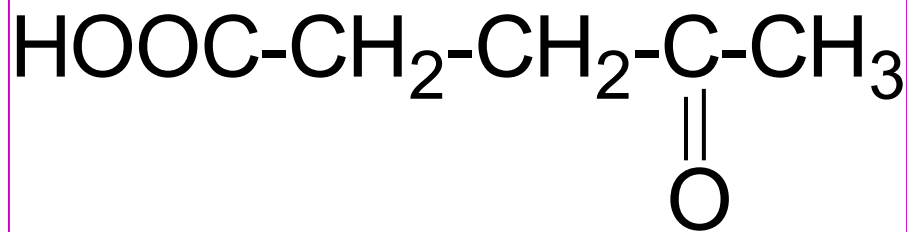
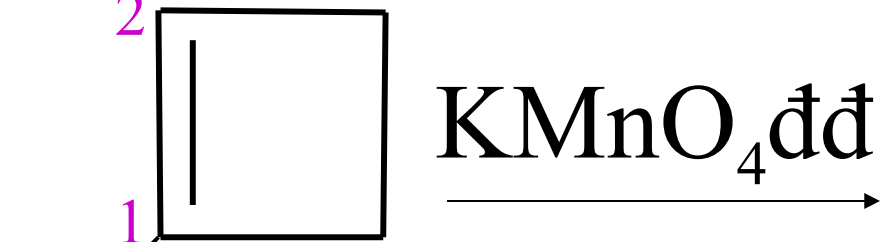


(c) Butin-1 và Butin-2

54. 2 đồng phân:  $C_5H_8 \xrightarrow{H_2/Pt}$  Cùng 1 sp  $C_5H_{10}$

$KMnO_4$  đđ  $\left\{ \begin{array}{l} \text{Di axit} \\ \text{Axit có chứa nhóm xeton} \end{array} \right.$

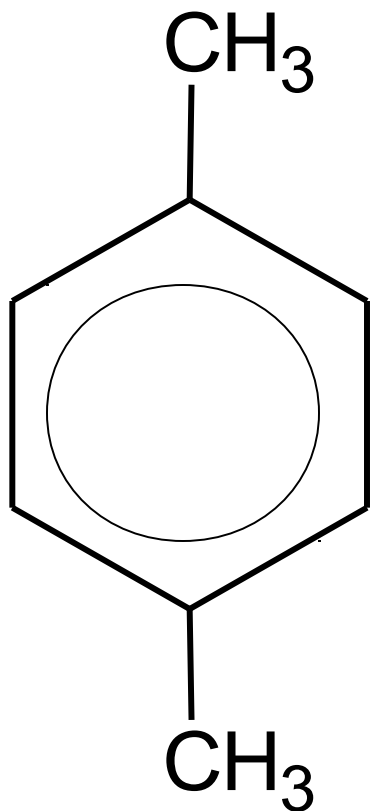
$C_5H_8 \xrightarrow{H_2/Pt} C_5H_{10}$   $\left\{ \begin{array}{l} \text{Có 1 mạch vòng} \\ \text{giống nhau} \end{array} \right.$



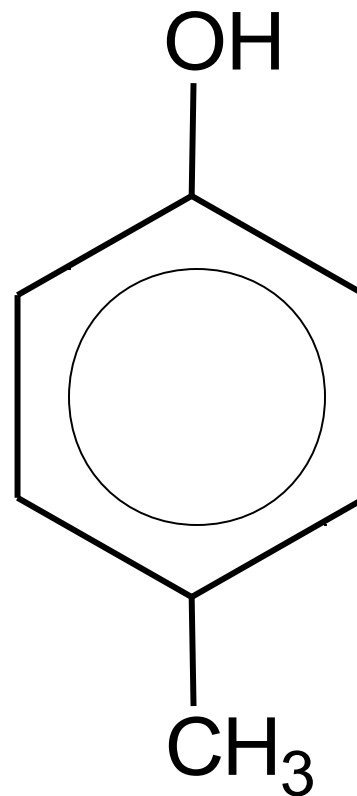
Câu (c)

## D. AREN

55. Tên gọi của 2 chất:

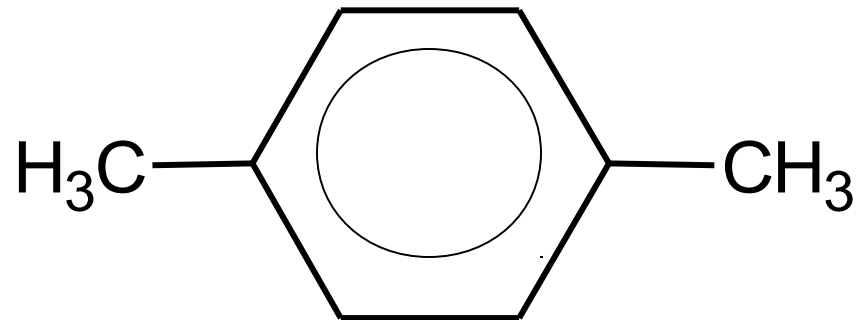
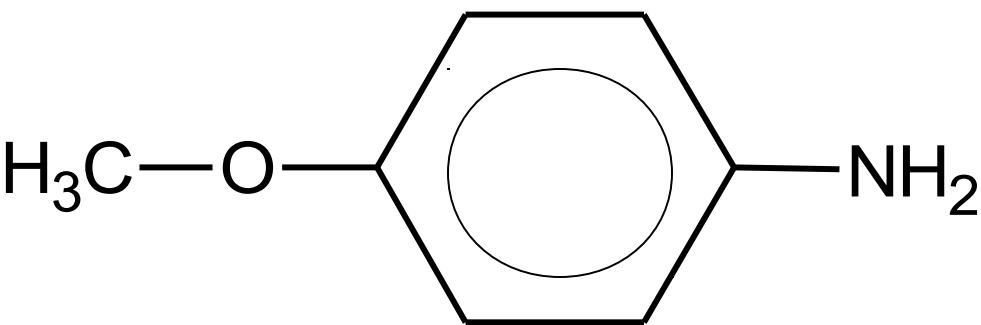
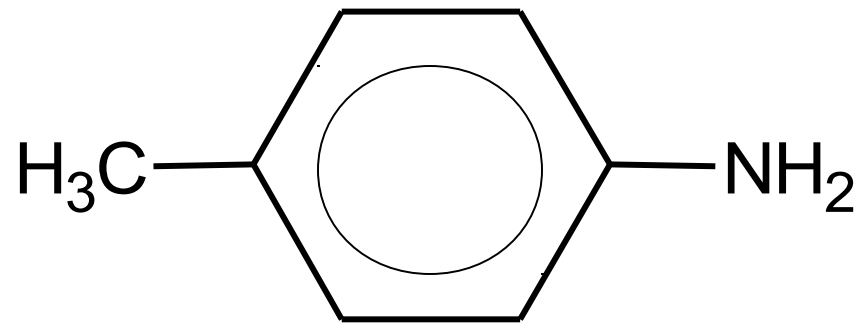
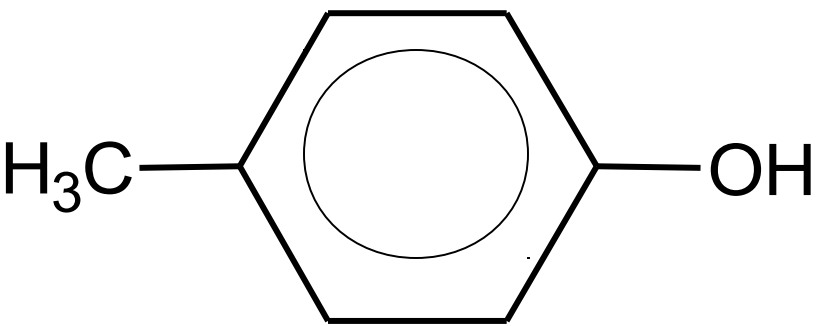


và



c. p-Xilen và p-Cresol

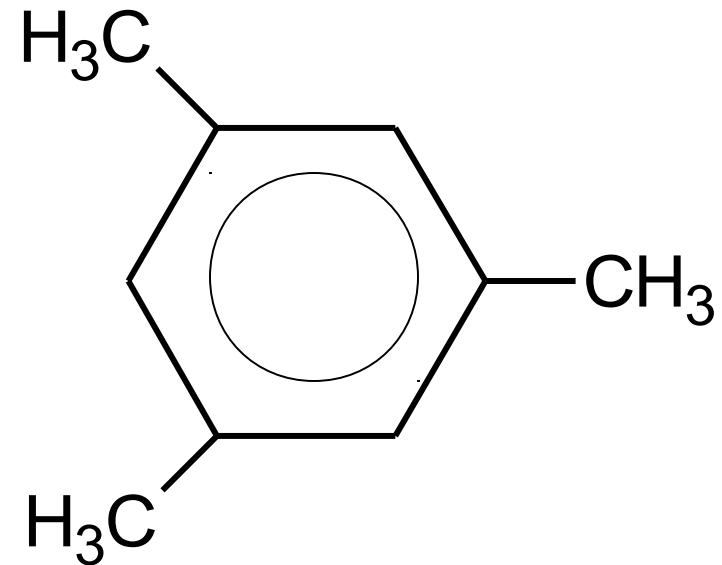
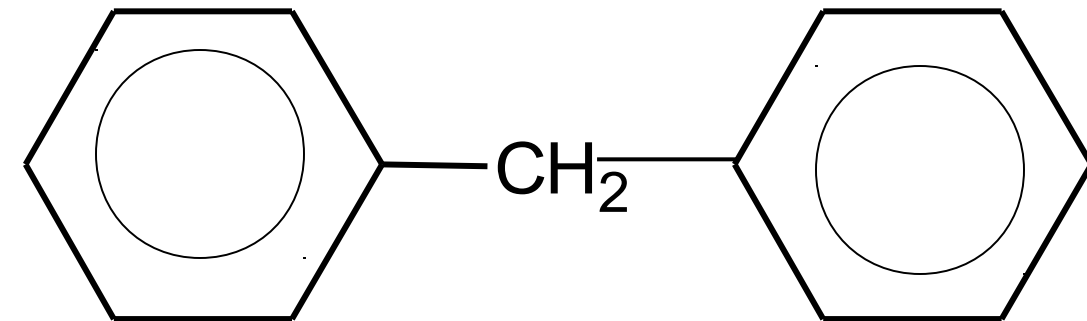
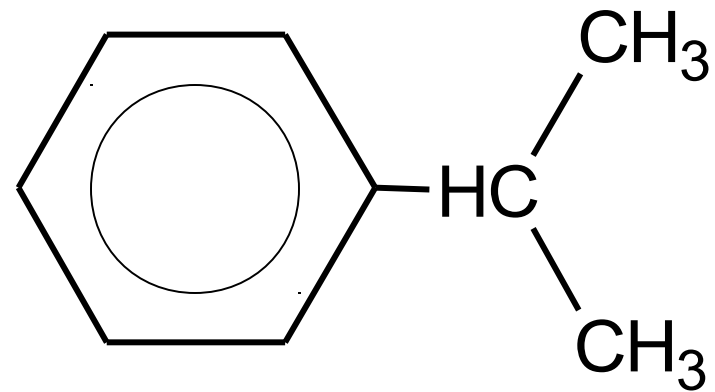
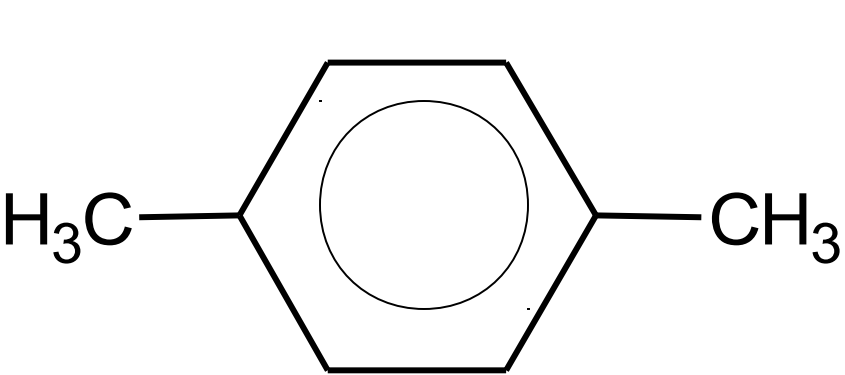
56. Tên gọi của:  $p\text{-CH}_3\text{-C}_6\text{H}_4\text{OH}$ ;  
 $p\text{-CH}_3\text{-C}_6\text{H}_4\text{NH}_2$ ;  $p\text{-CH}_3\text{-O-C}_6\text{H}_4\text{NH}_2$ ;  $p\text{-CH}_3\text{-C}_6\text{H}_4\text{CH}_3$  lần lượt là:



d. p-cresol, p-toludin, p-anisidin, p-xilen

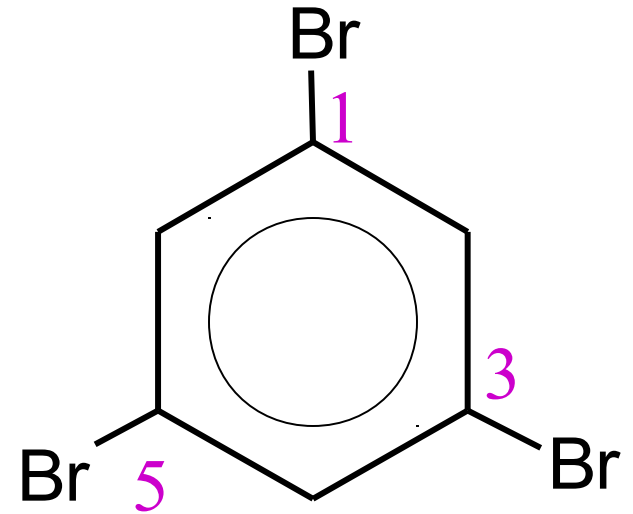
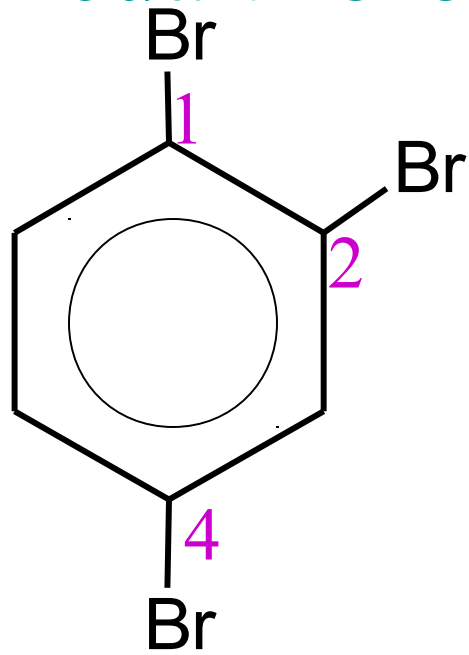
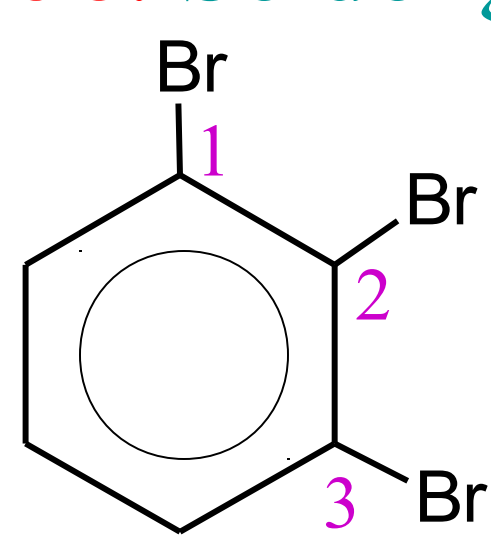


## 57. Tên gọi:



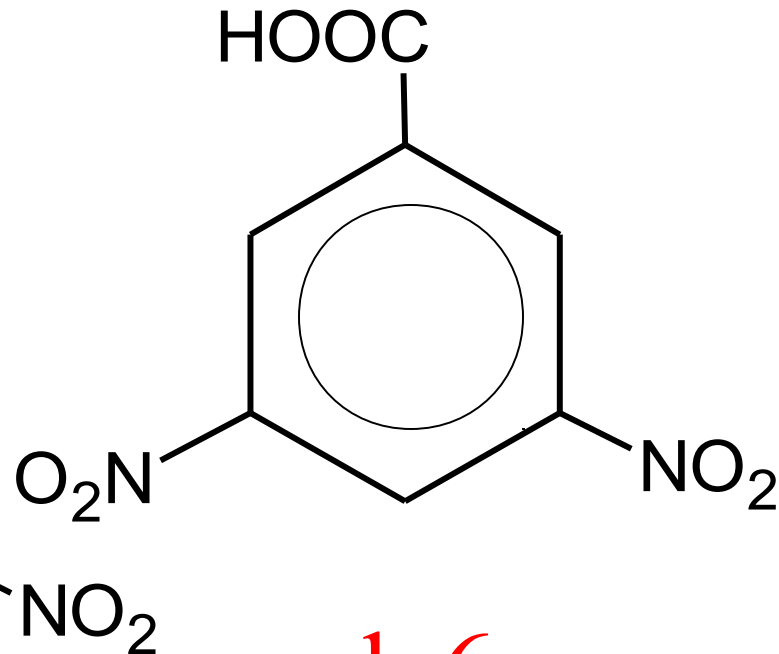
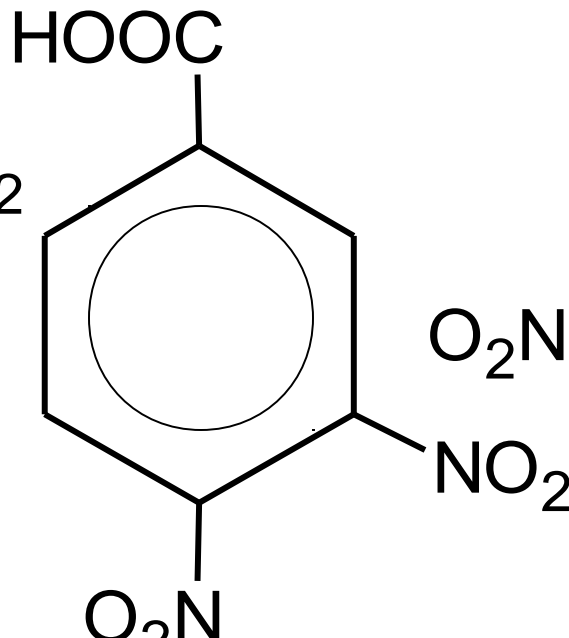
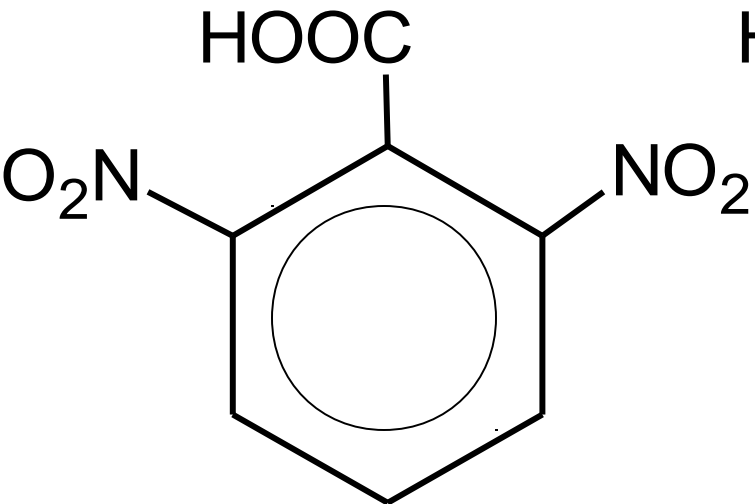
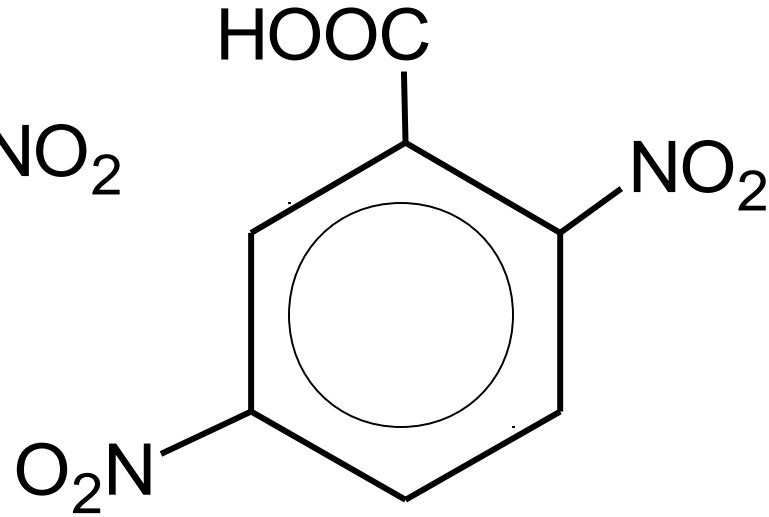
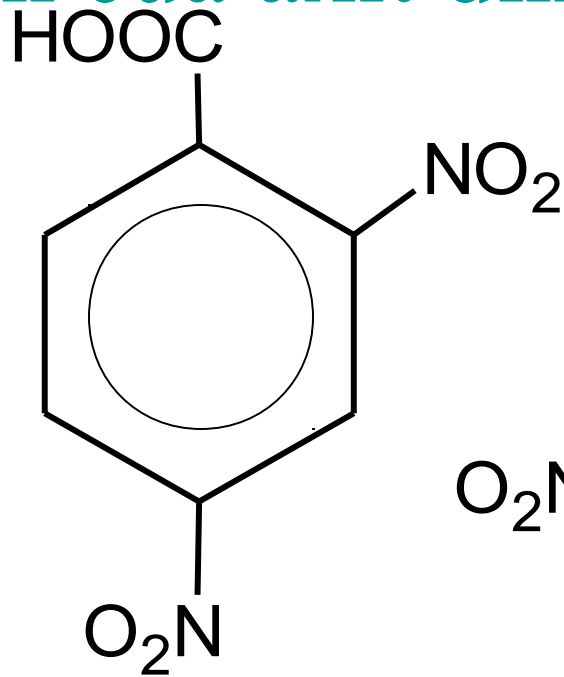
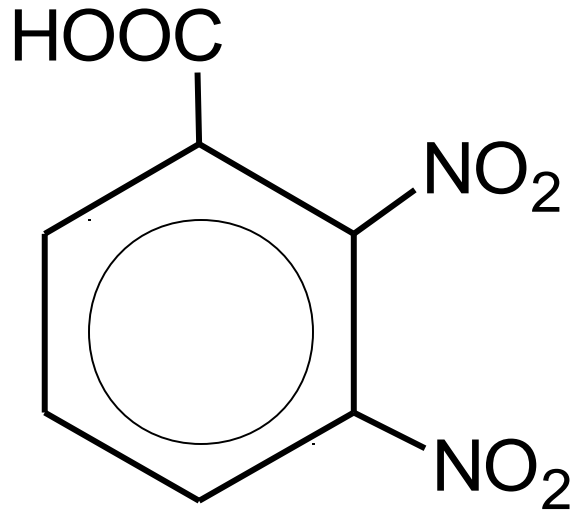
d. p-xilen, cumen, Diphenylmetan, mesitilen

58. Số đồng phân của tribromenzen?



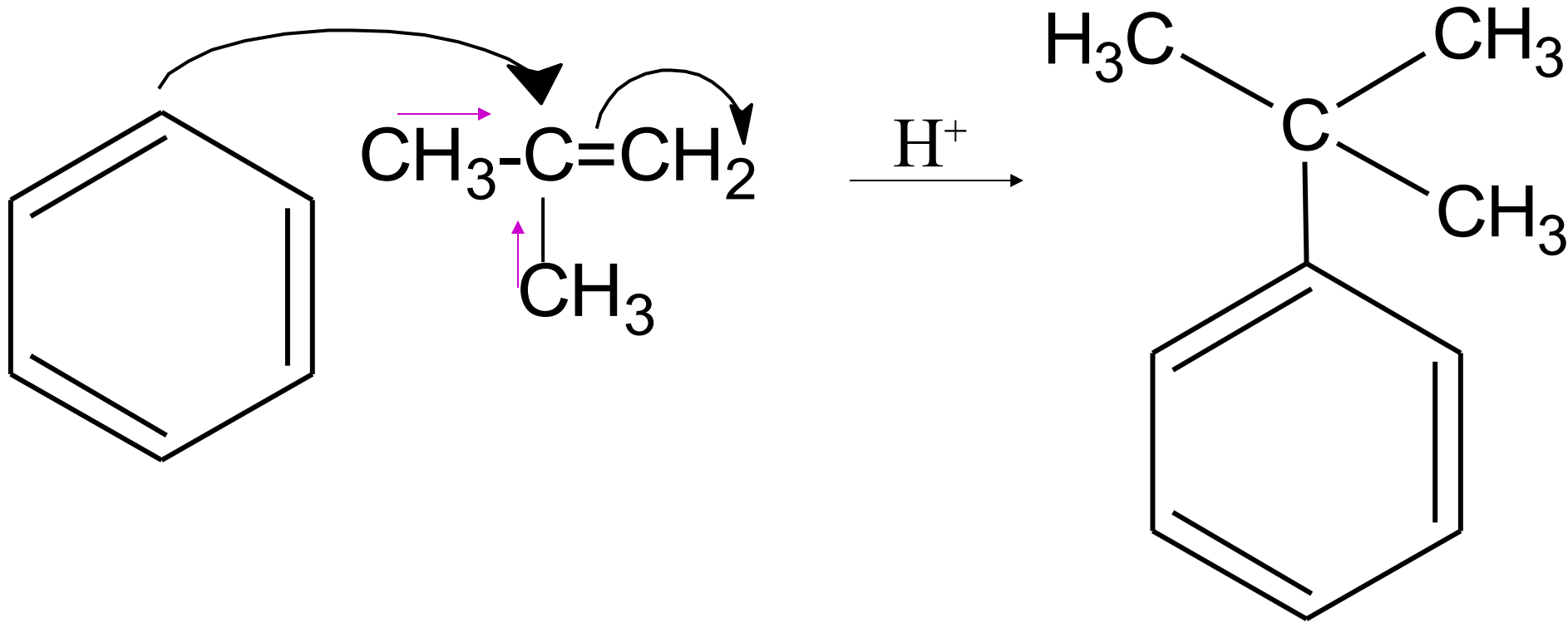
(a). 3

59. Số đồng phân của axit dinitrobenzoic?



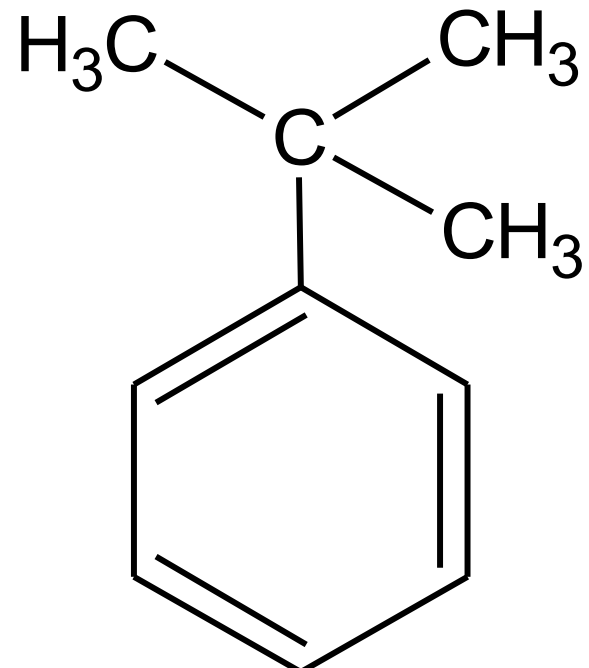
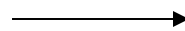
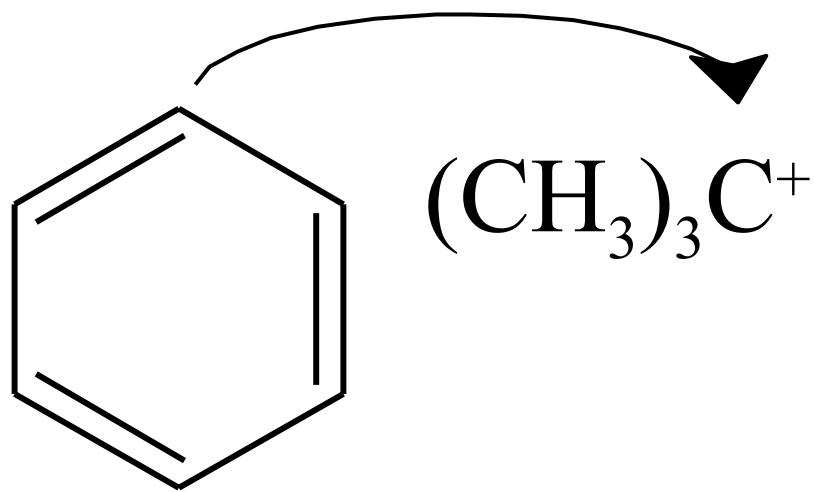
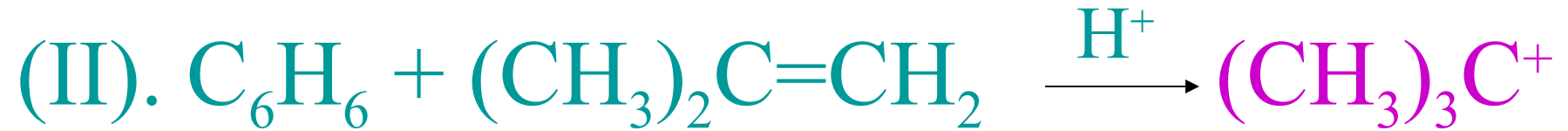
d. 6

60. Cho pư: Bezen + 2-metylpropen  $\xrightarrow{H^+}$  A



a. t-butyibenzen

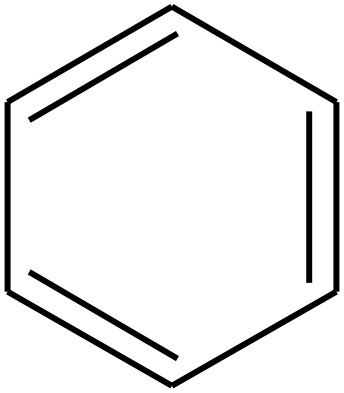
# 61. Phương nào cho t-butylbenzen



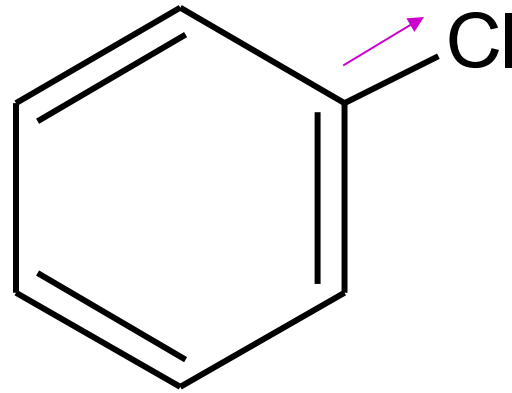
a. Cả 3 phương

62. Hợp chất có hoạt tính mạnh nhất trong pư sulfon hóa:

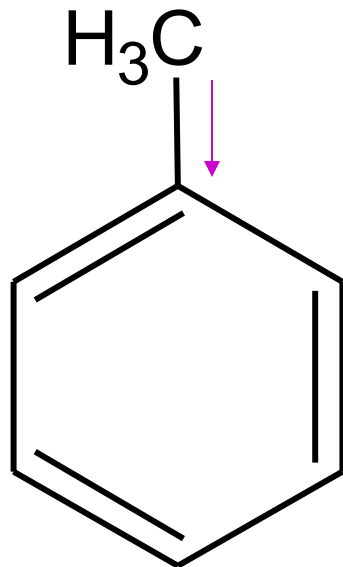
a. benzen:



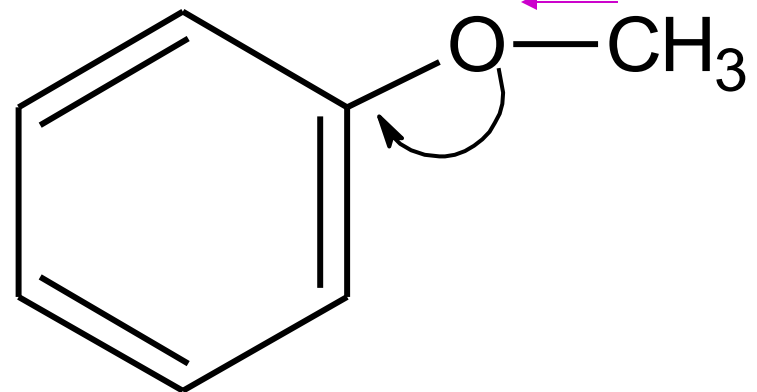
b. Clobenzen



c. Toluen



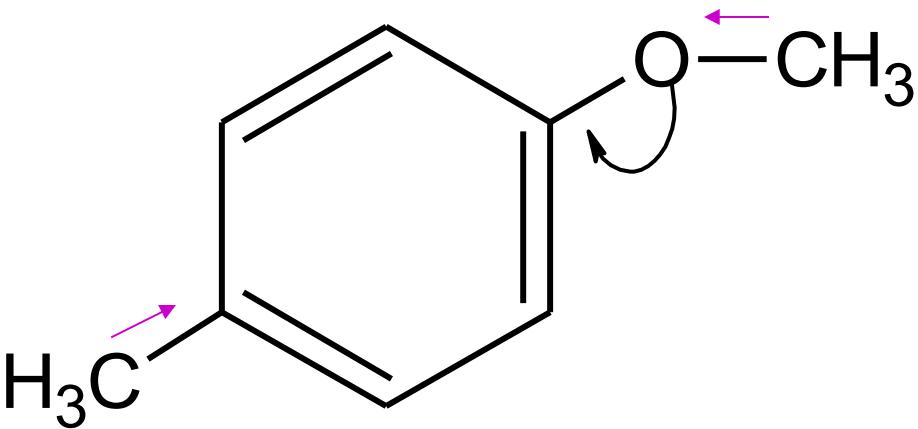
d. Anisol



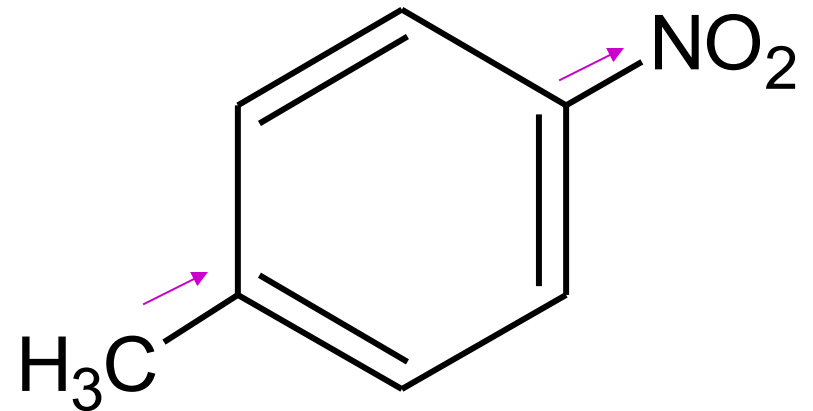
Câu (d)

# 63. Chất có hoạt tính mạnh nhất đối với p-nitro hóa:

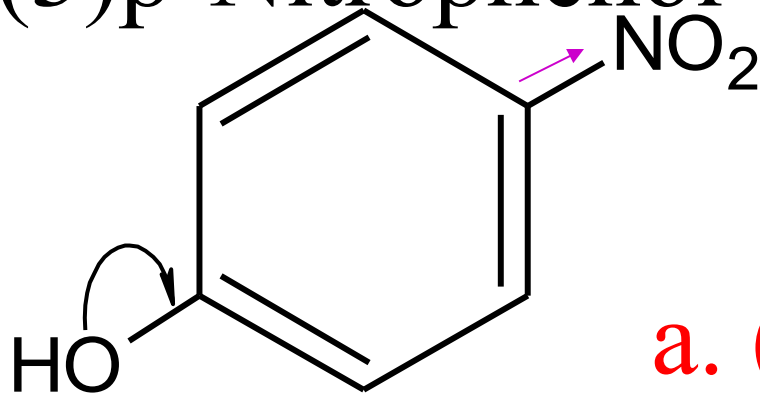
(1). p-Metoxitoluen



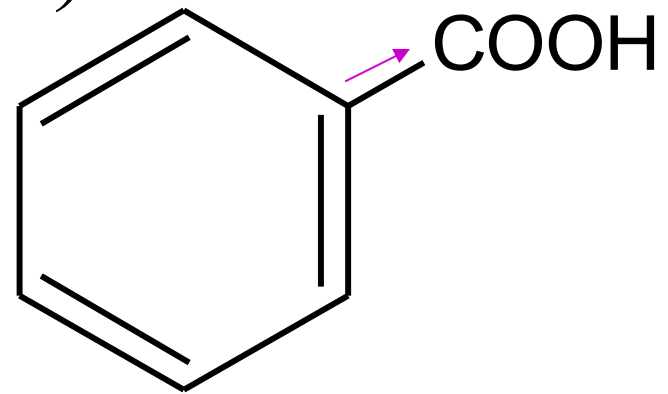
(2) p-Nitrotoluen



(3) p-Nitrophenol



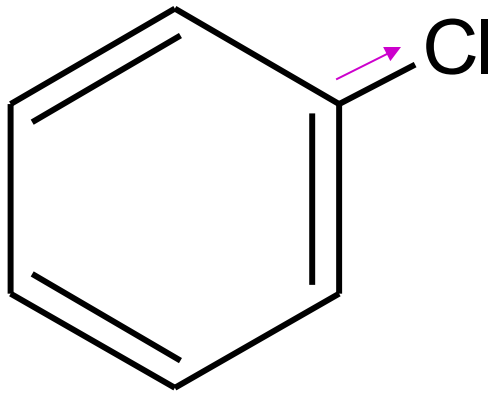
(4) Axit benzoic



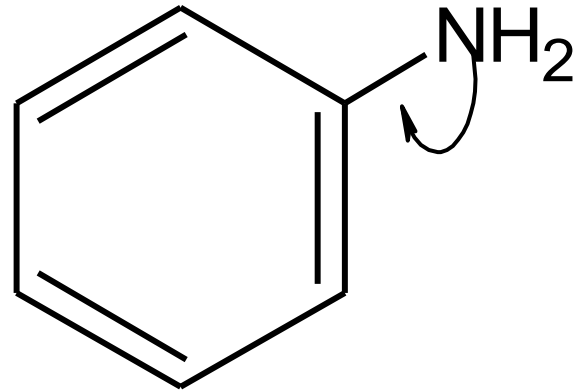
a. (1)

# 64. Thứ tự hoạt tính giảm dần đối với pư Clor hóa:

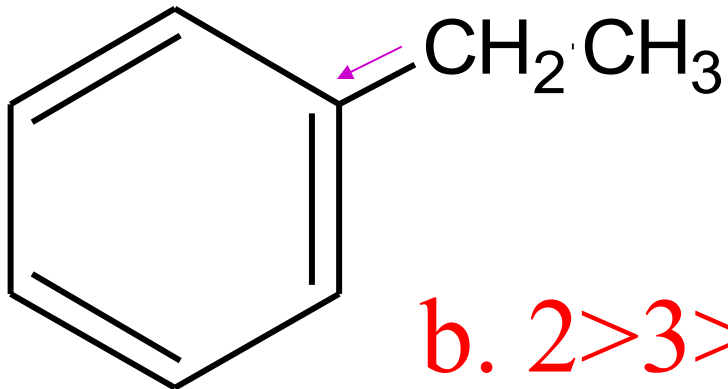
(1) Clobenzen



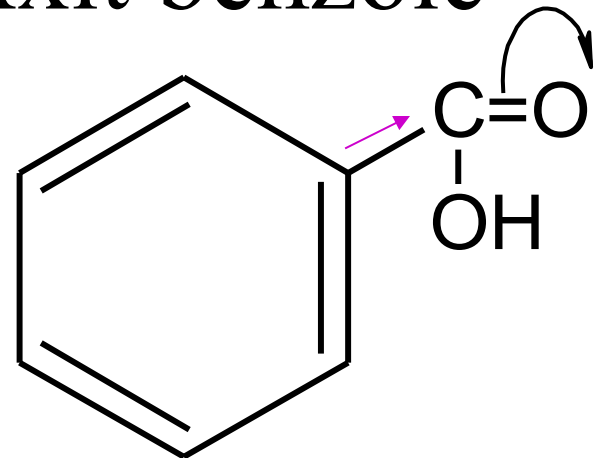
(2) Anilin



(3) Etylbenzen



(4) Axit benzoic



b.  $2 > 3 > 1 > 4$



65. Nhóm tăng hoạt định hướng orto, para:

a.  $-\text{N}=\text{O}$    b.  $-\text{O}-\text{CH}_3$    c.  $-\text{COCH}_3$    d.  $-\text{NO}_2$

66. Nhóm định hướng orto, para:

a.  $-\text{NHCOCH}_3$

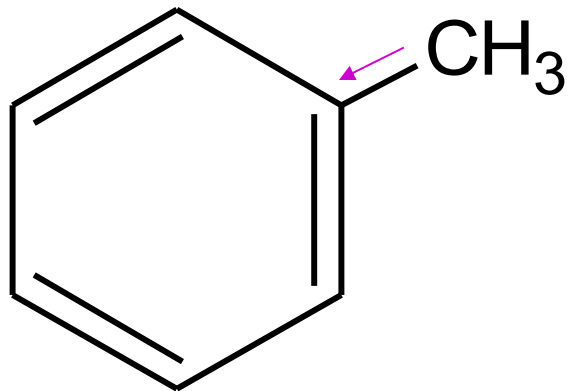
b.  $-\text{COCH}_3$

c.  $-\text{CO}_2\text{H}$

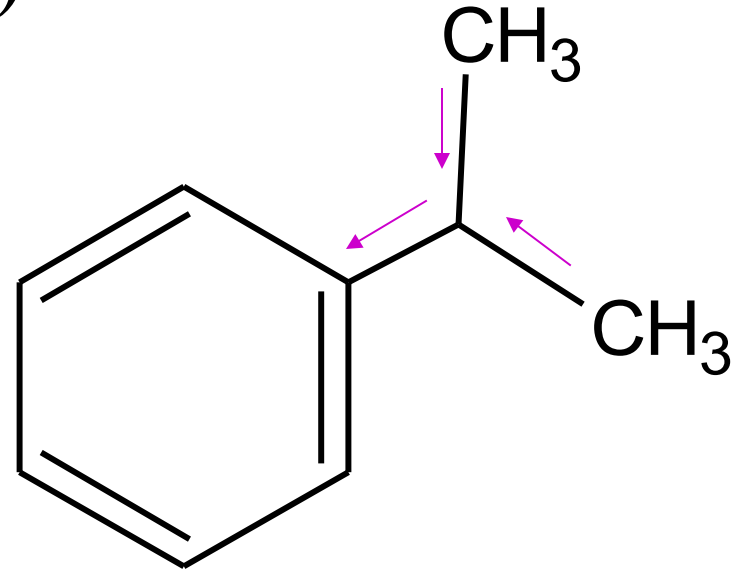
d.  $-\text{CN}$

67. Chất cho pư thể thân electron tại vị trí orto, para?

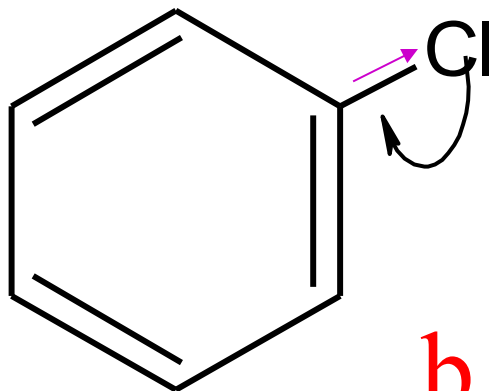
(A) Toluen



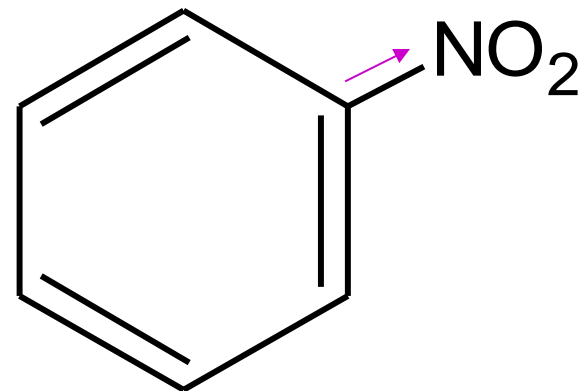
(B) Cumen



(C) Clobenzen

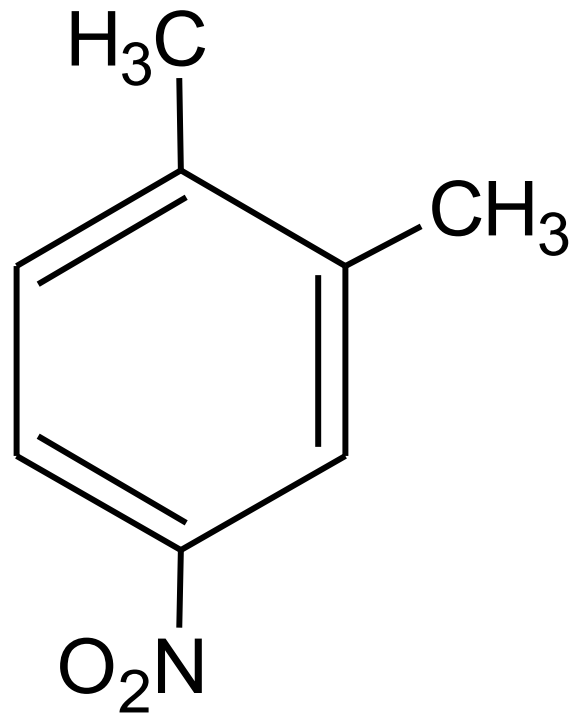
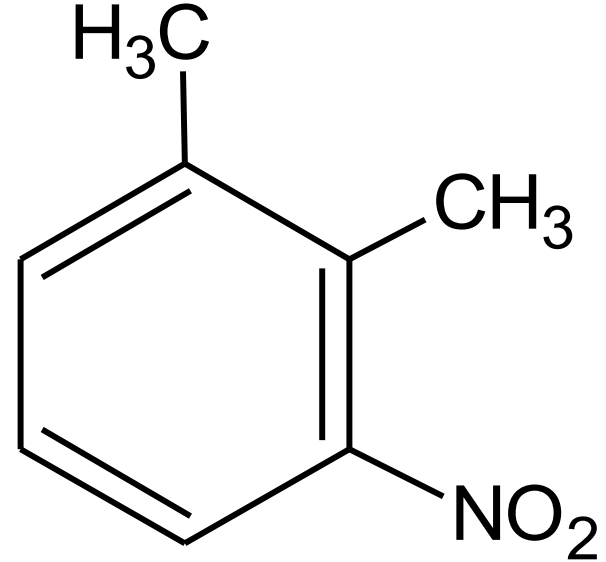
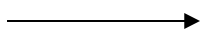
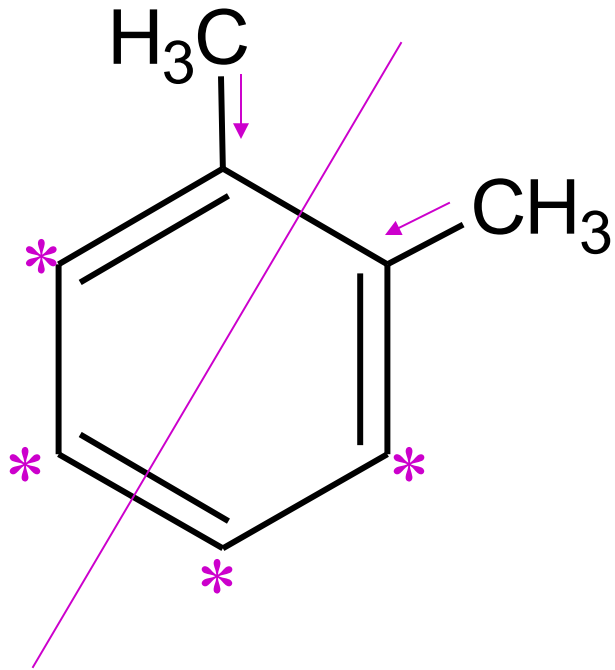


(D) Nitrobenzen



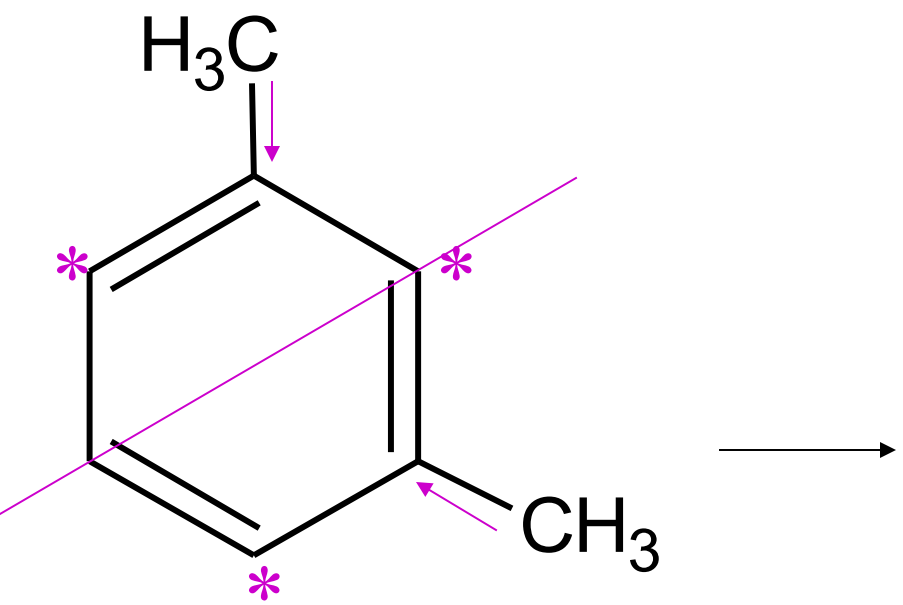
b. A,B,C

68. Số sp thể 1 lần khi nitro hóa o-Xilen:

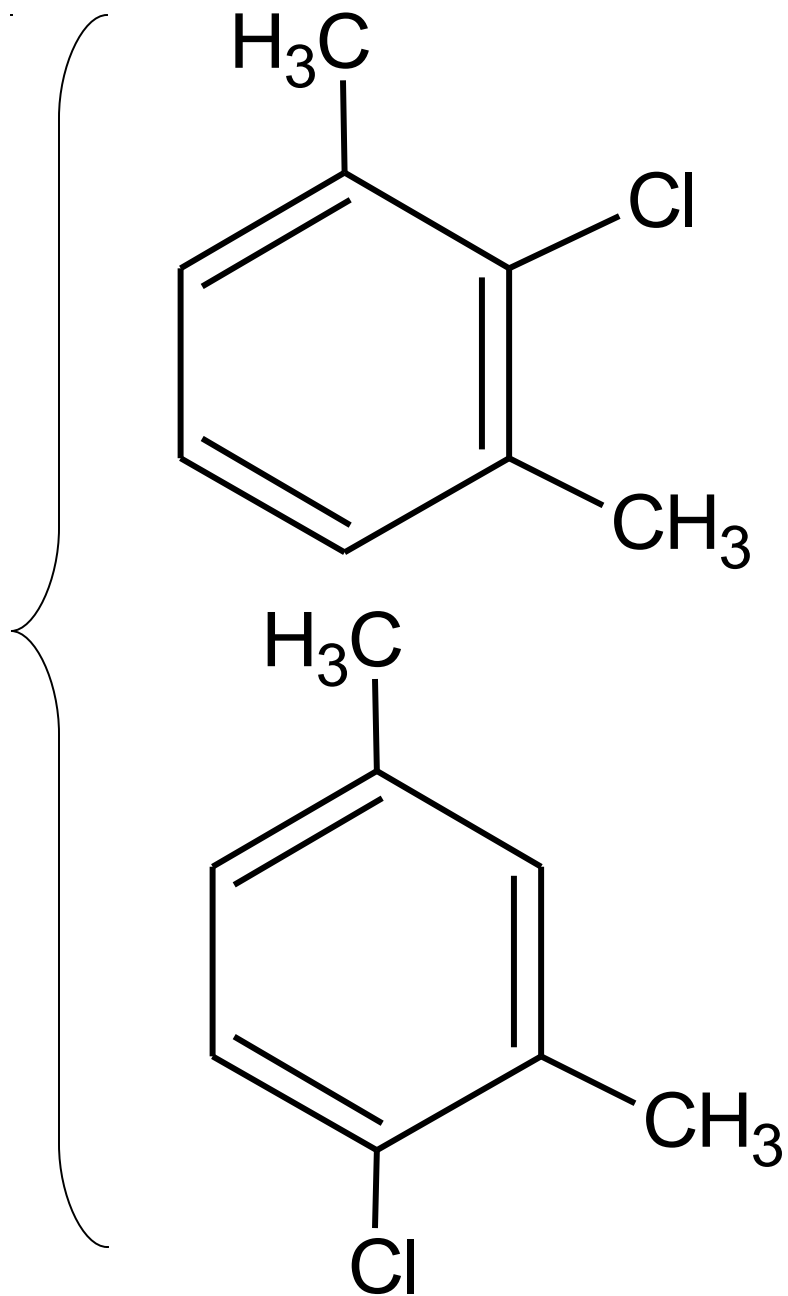


c. 2

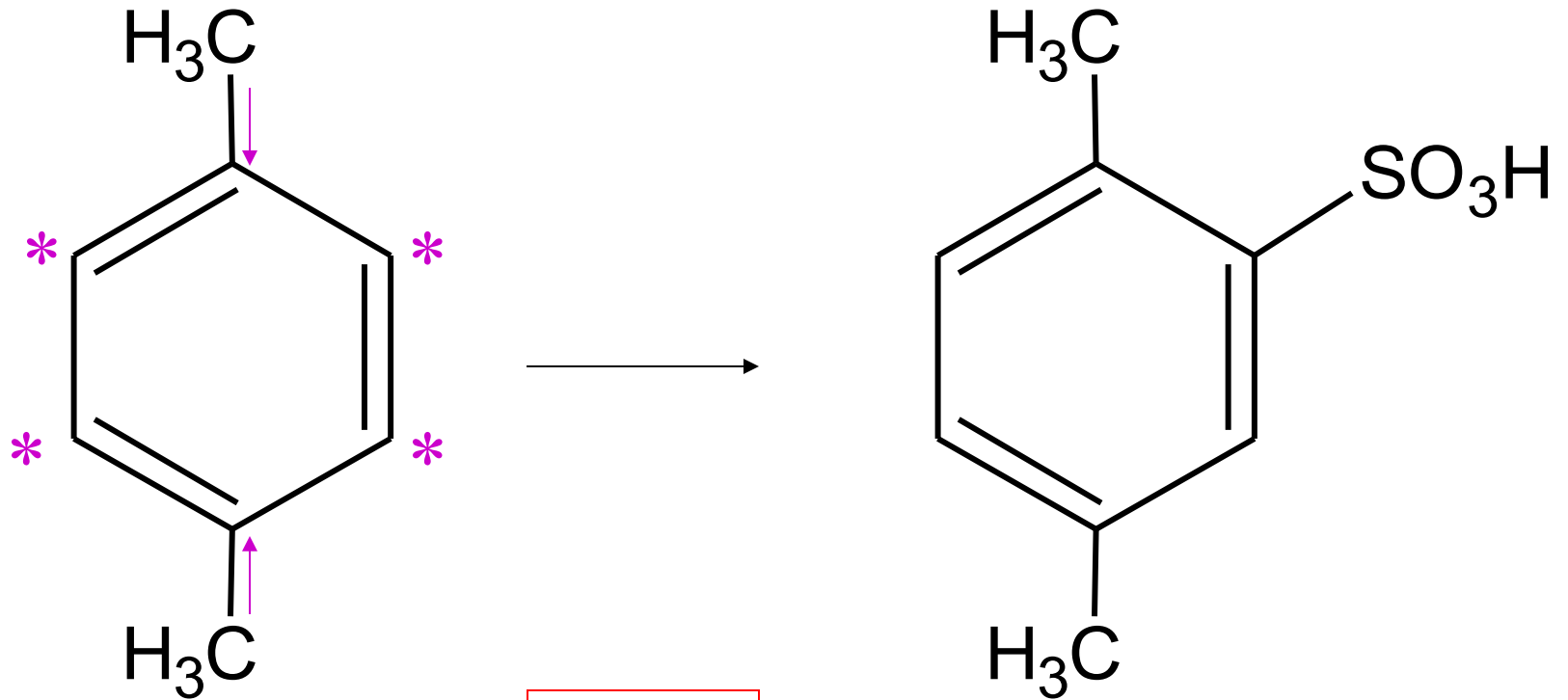
# 69. Số sp thể 1 lần khi Clo hóa m-Xilen



b. 2



70. Số sp thế 1 lần khi sulfon hóa p-Xilen

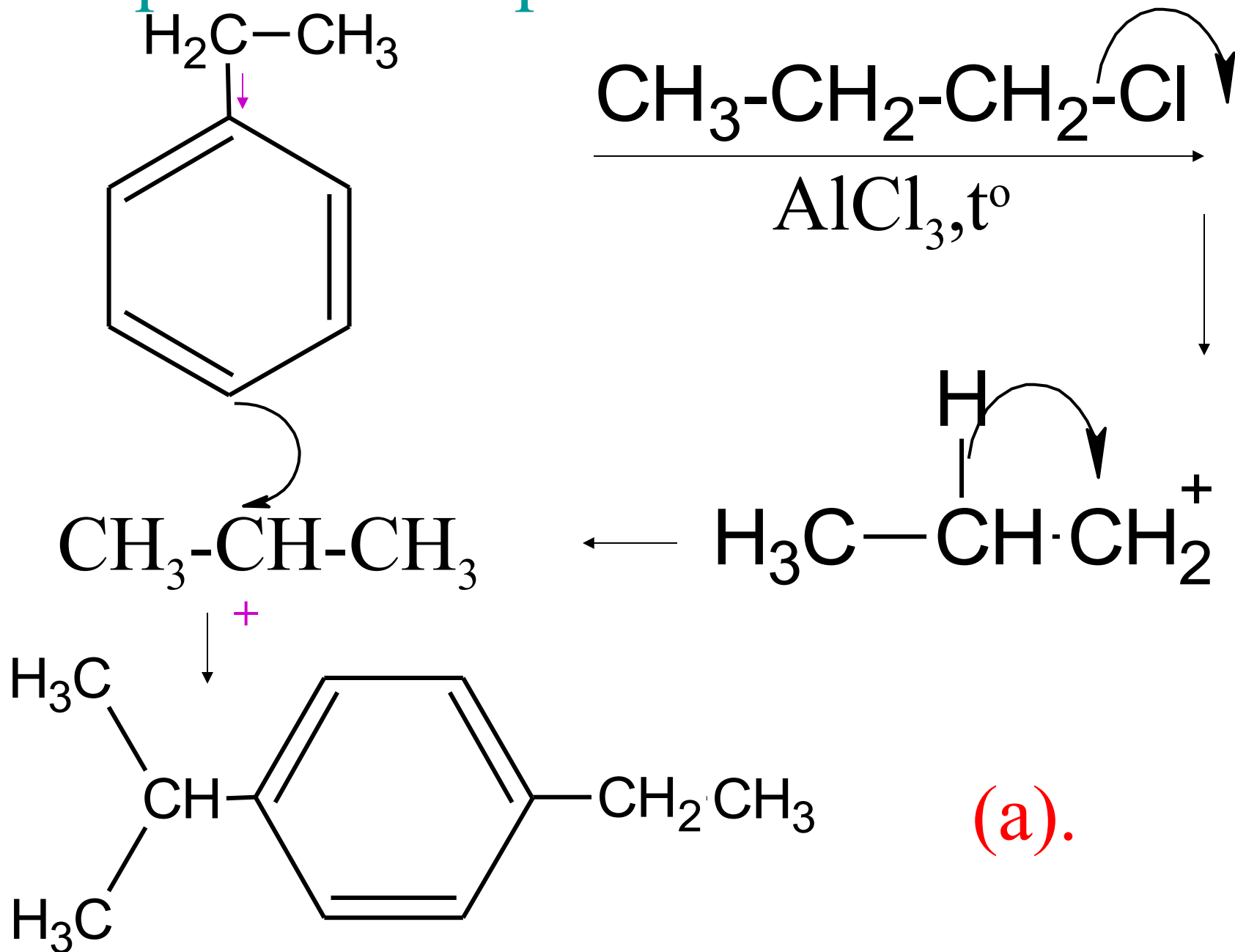


a. 1

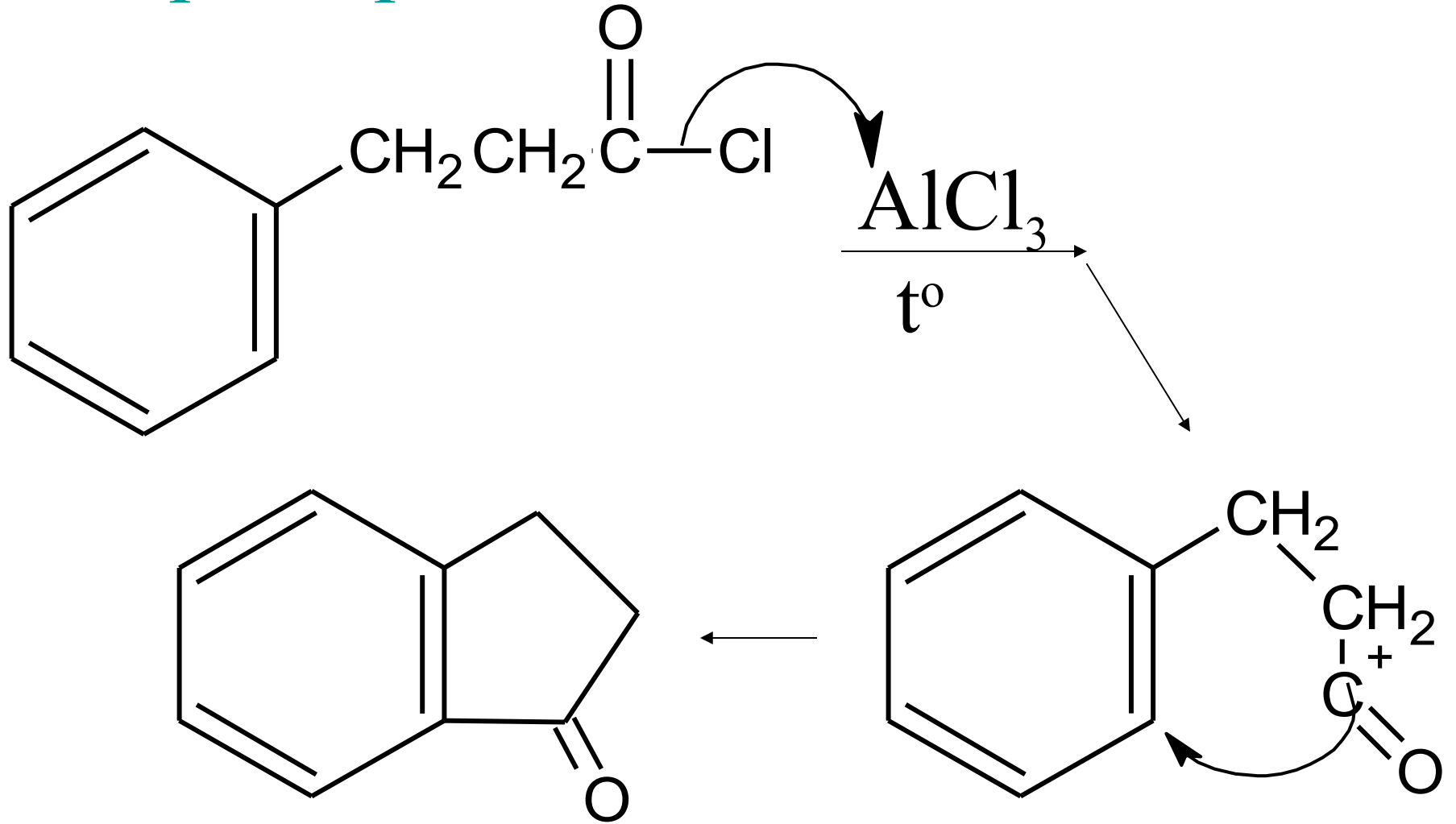
71.  $C_8H_{10} \xrightarrow[Fe]{Cl_2}$  sp thế 1 lần

d. p-Xilen

## 72. Sp chính của pư:

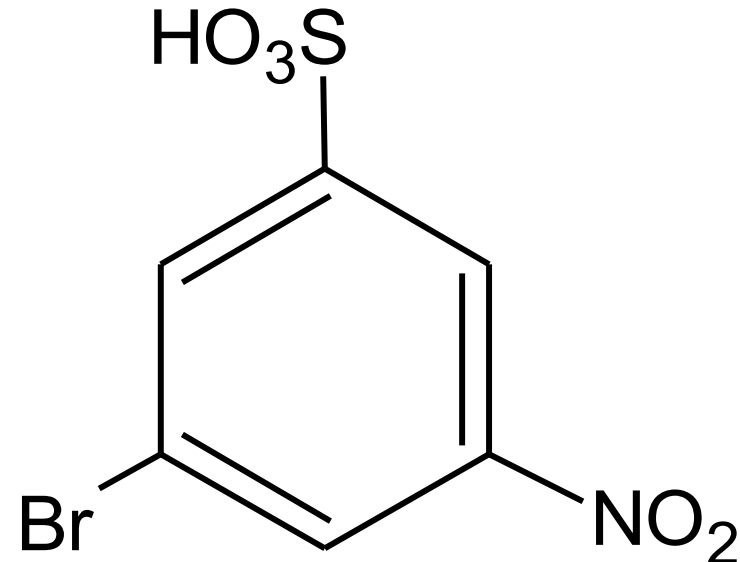
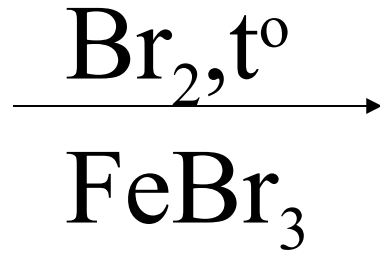
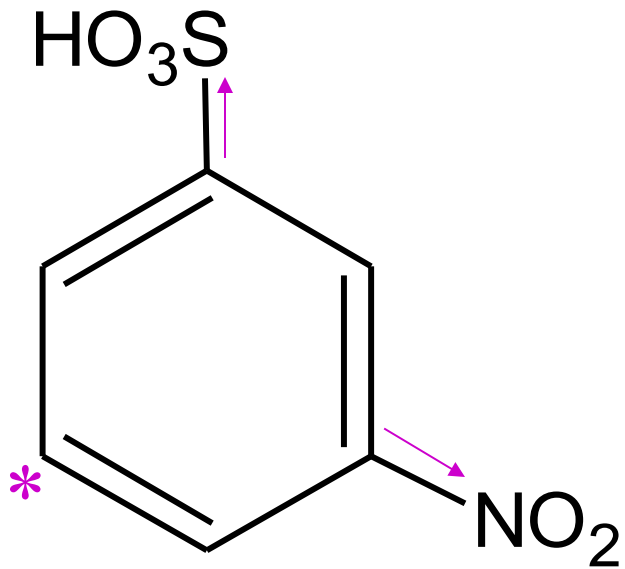


# 73. Sp của pư:



Câu (c)

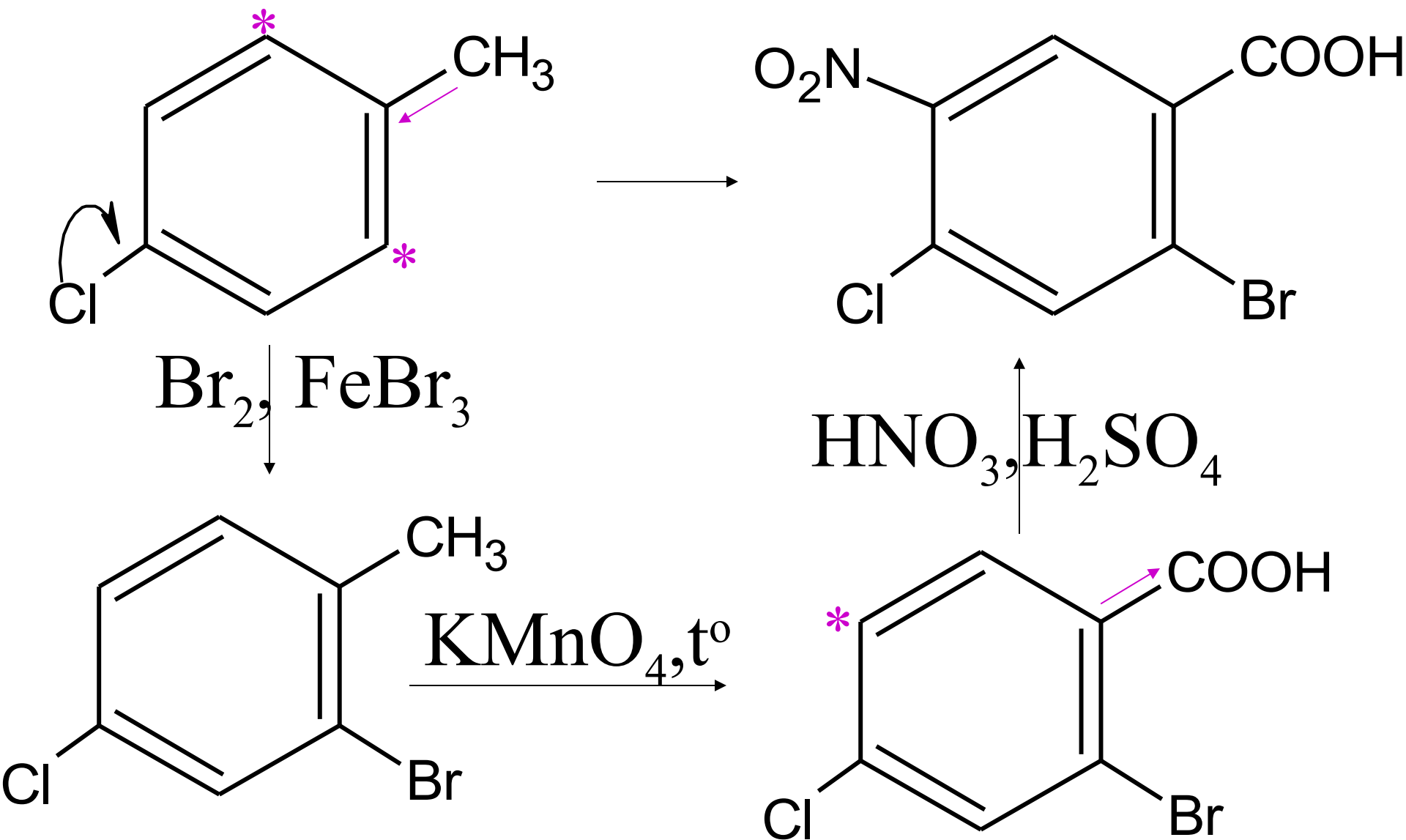
74. Sp của pư:



Câu (b)

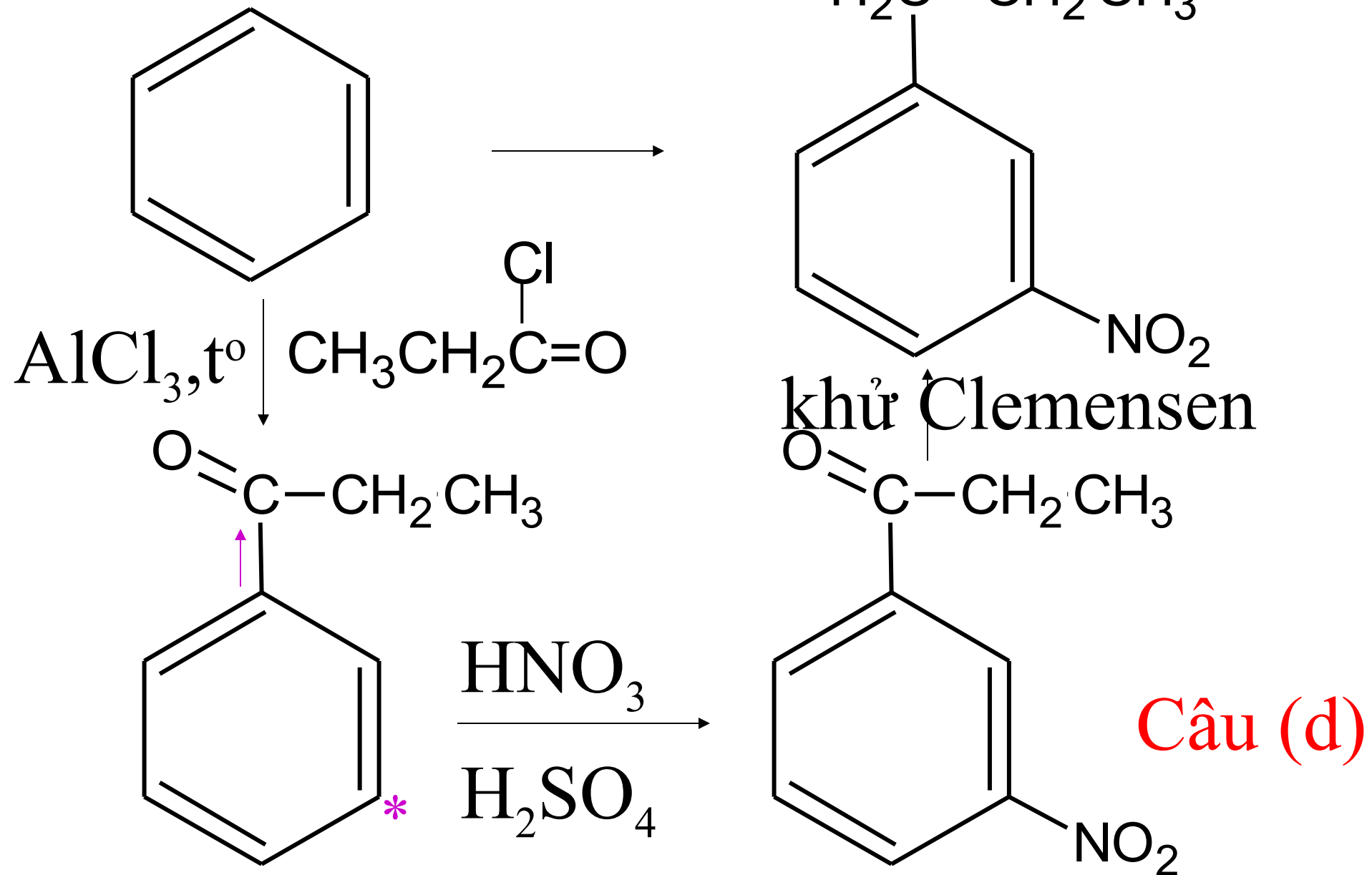


# 75. Chọn quy trình

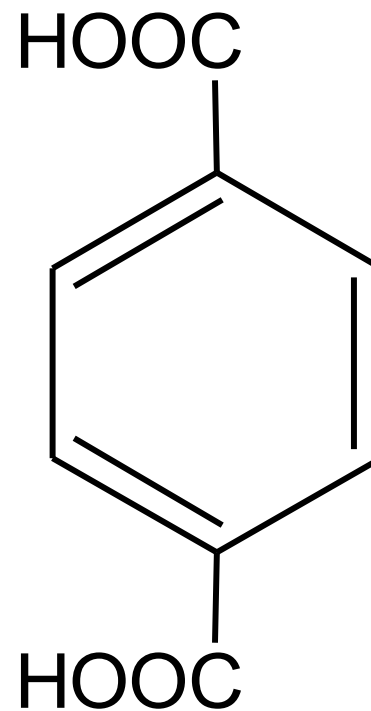
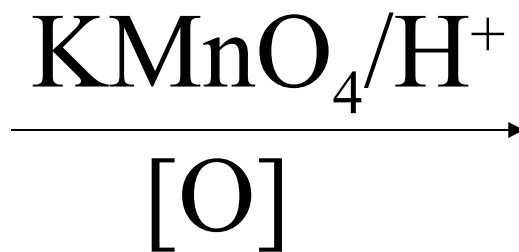
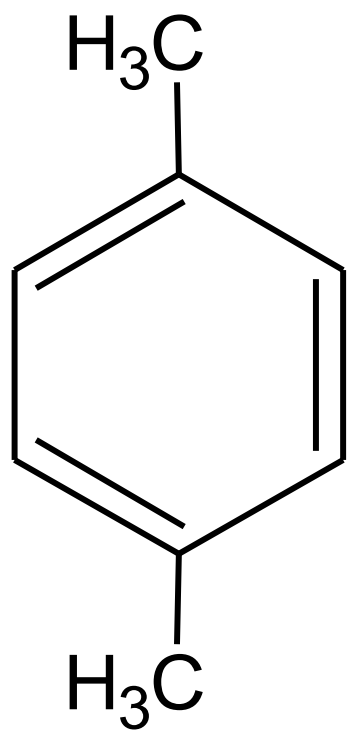


Câu (a)

# 76. Tổng hợp từ benzen, pp tốt nhất?

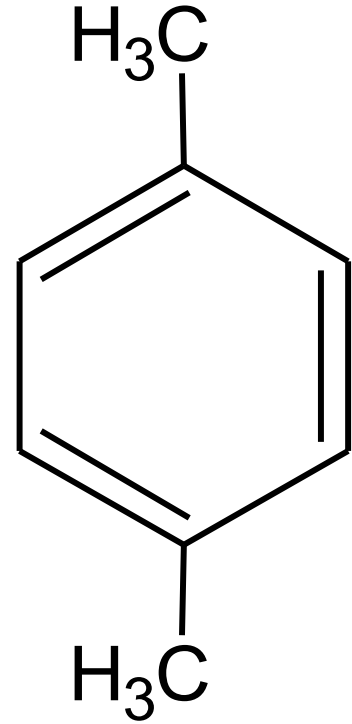
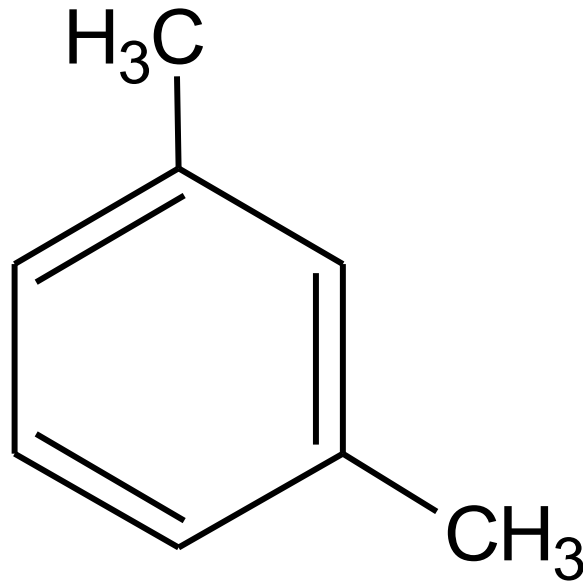
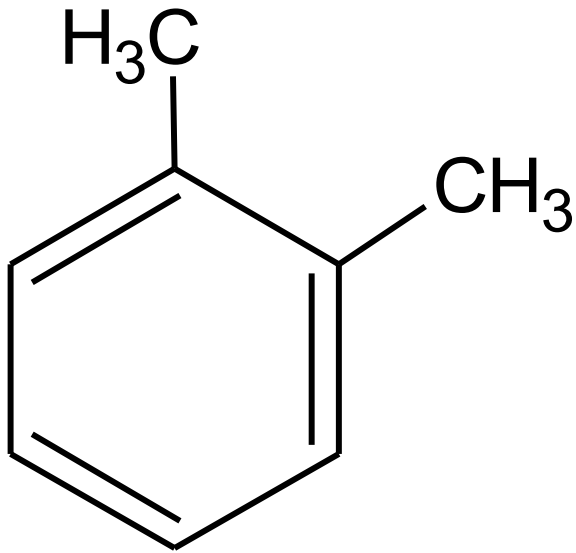


77. Cho pu: P-Xilen  $\xrightarrow[\text{[O]}]{\text{KMnO}_4/\text{H}^+}$  A ?



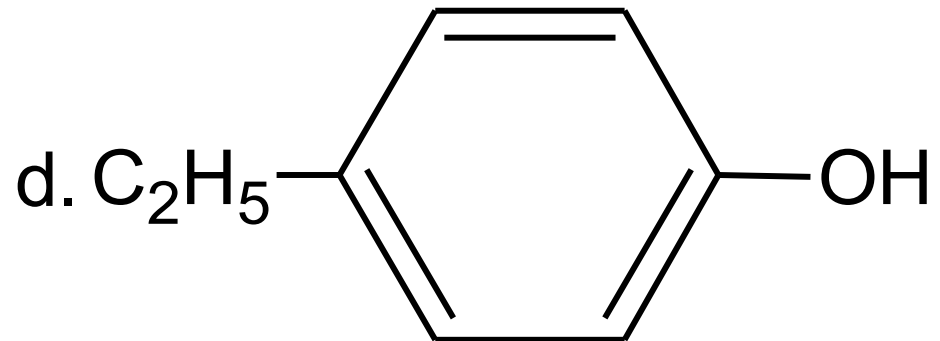
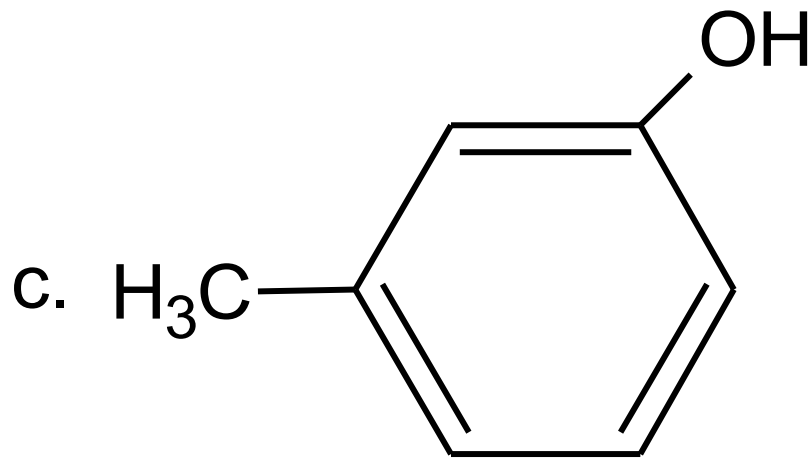
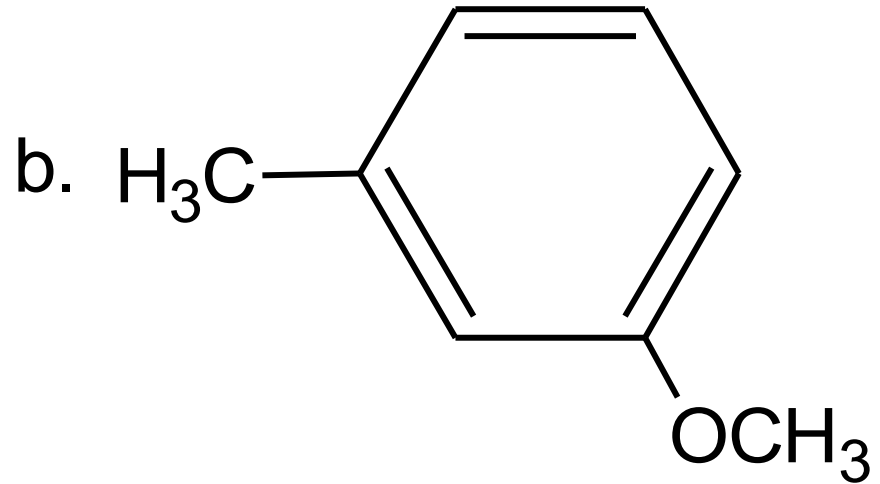
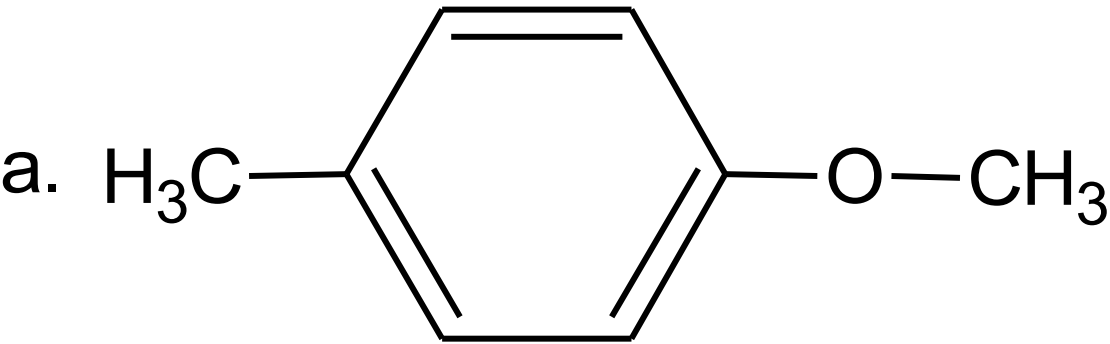
d. Axit terephthalic

78. Oxy hóa chất nào trong 3 chất: o-, p-, m-xilen thu được acid terephthalic?



c. p-xilen

79. Oxy hóa A( $C_8H_{10}O$ ) bằng  $KMnO_4$  đun nóng thu được acid p-hydroxibenzoic, A là;



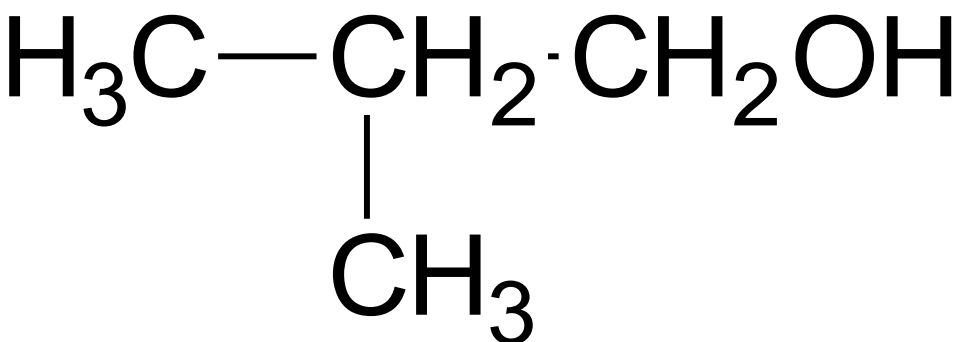
Câu (d)

# CHƯƠNG III: ANCOL và PHENOL

1. Tên gọi:  $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-OH}$ ,  
 $\text{CH}_3\text{CH}_2\text{CHOHCH}_3$ ,  $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$ ,  
 $(\text{CH}_3)_3\text{COH}$ .

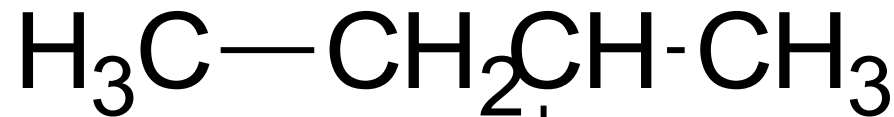


Butanol-1

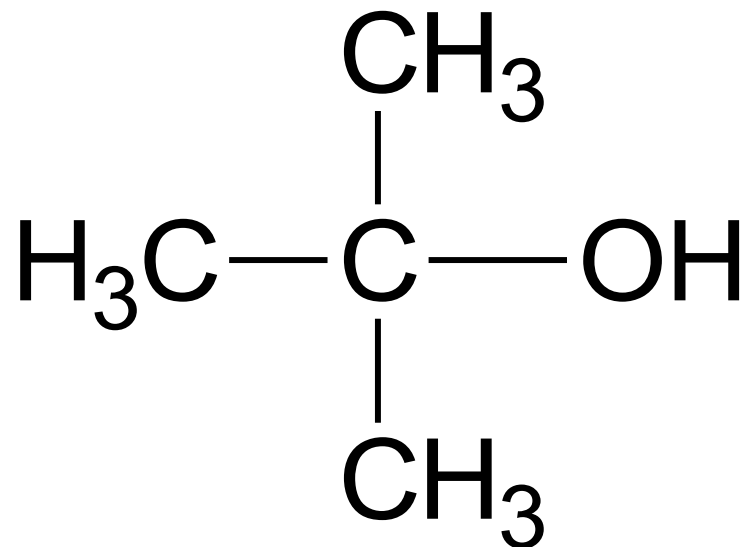


2-Metylpropanol-1

(b)

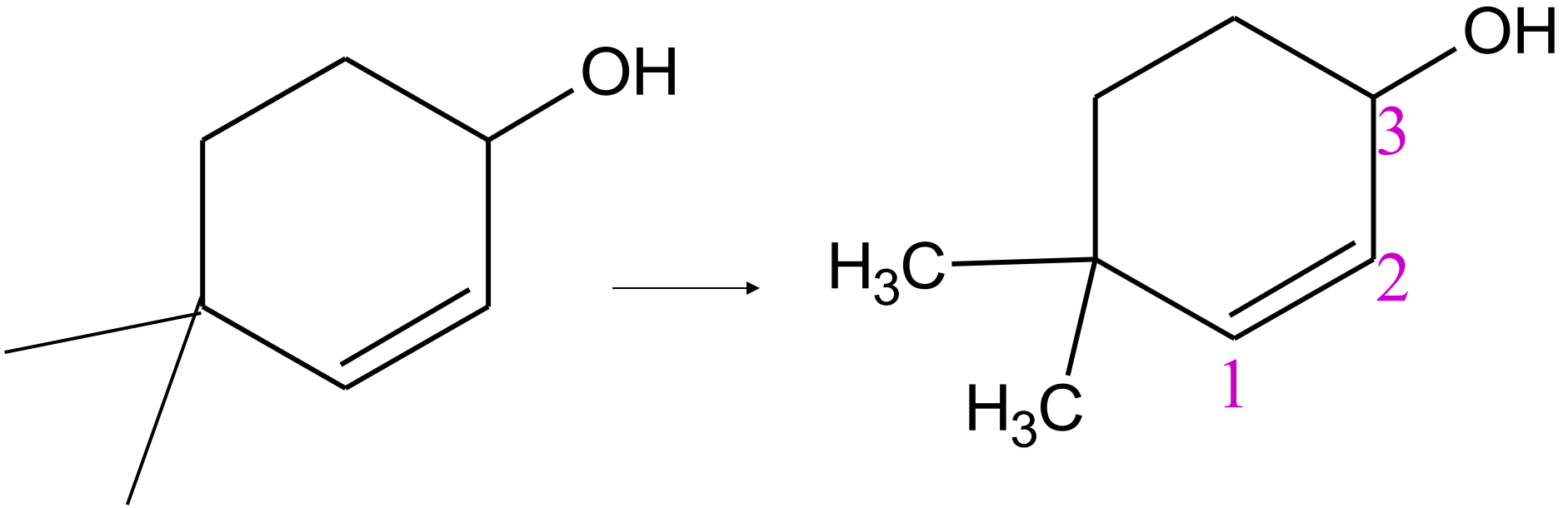


Butanol-2



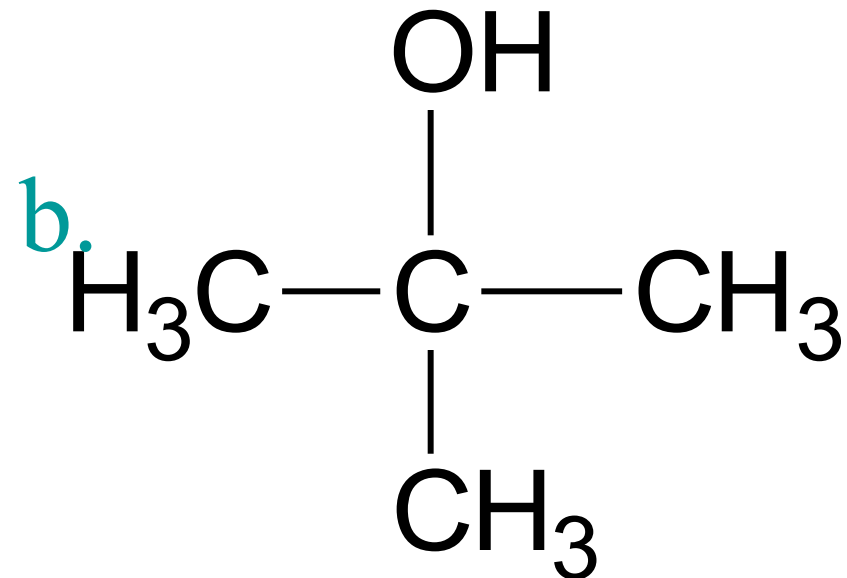
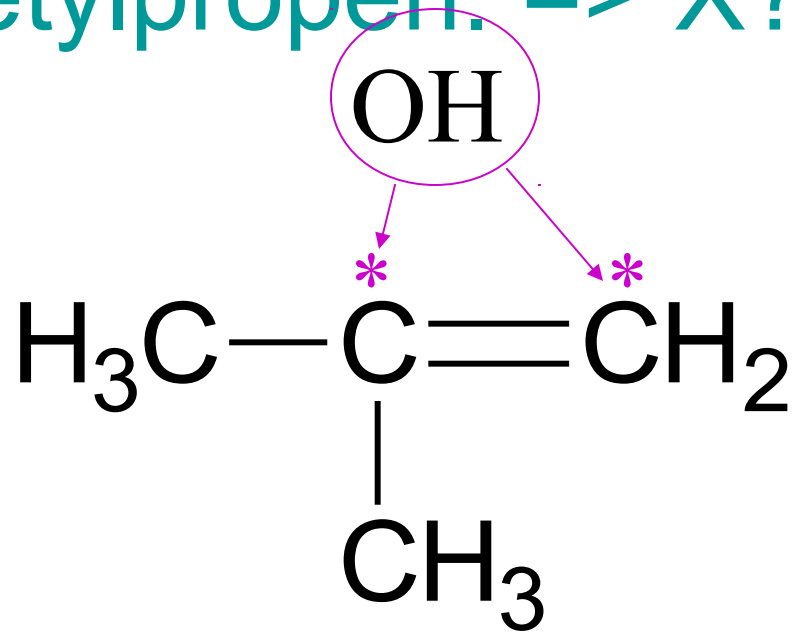
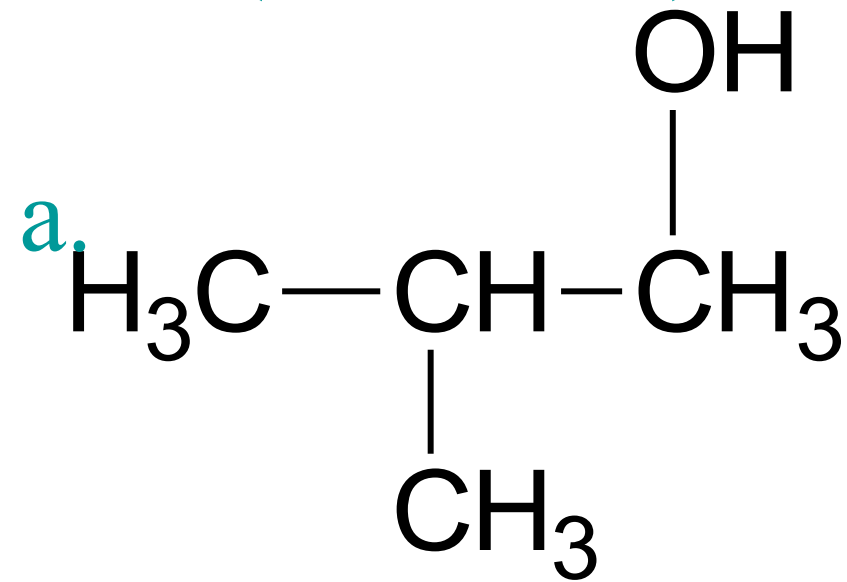
2-Metylpropanol-2

## 2. Tên gọi:



(c) 6,6-Dimetyl-1-ciclohexen-3-ol

3. X (khử nước) → 2-Metylpropen. => X?



(c) 2-Metylpropanol-1  
2-Metylpropanol-2



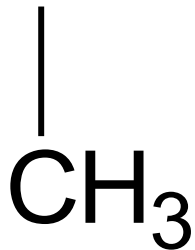
4. Bậc của: n-butylic, s-butylic, i-butylic, và t-butylic lần lượt là:



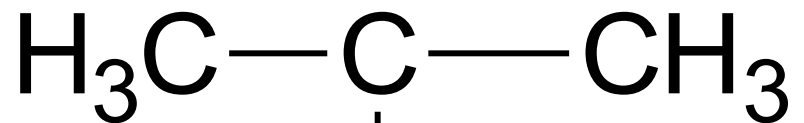
(bậc 1)



(bậc 2)



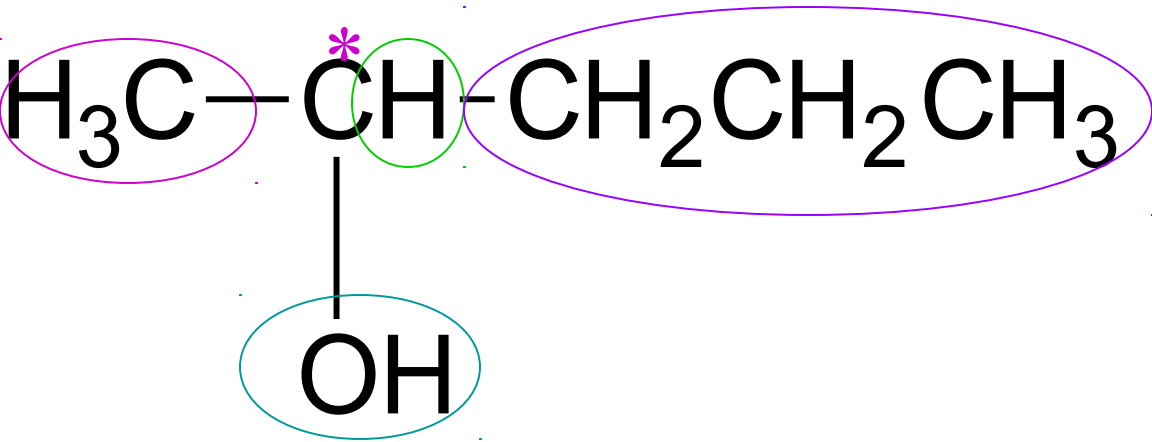
(bậc 1)



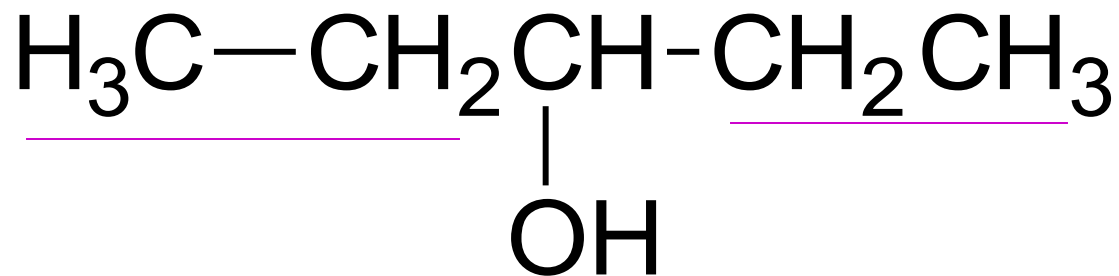
(bậc 3)

Câu c

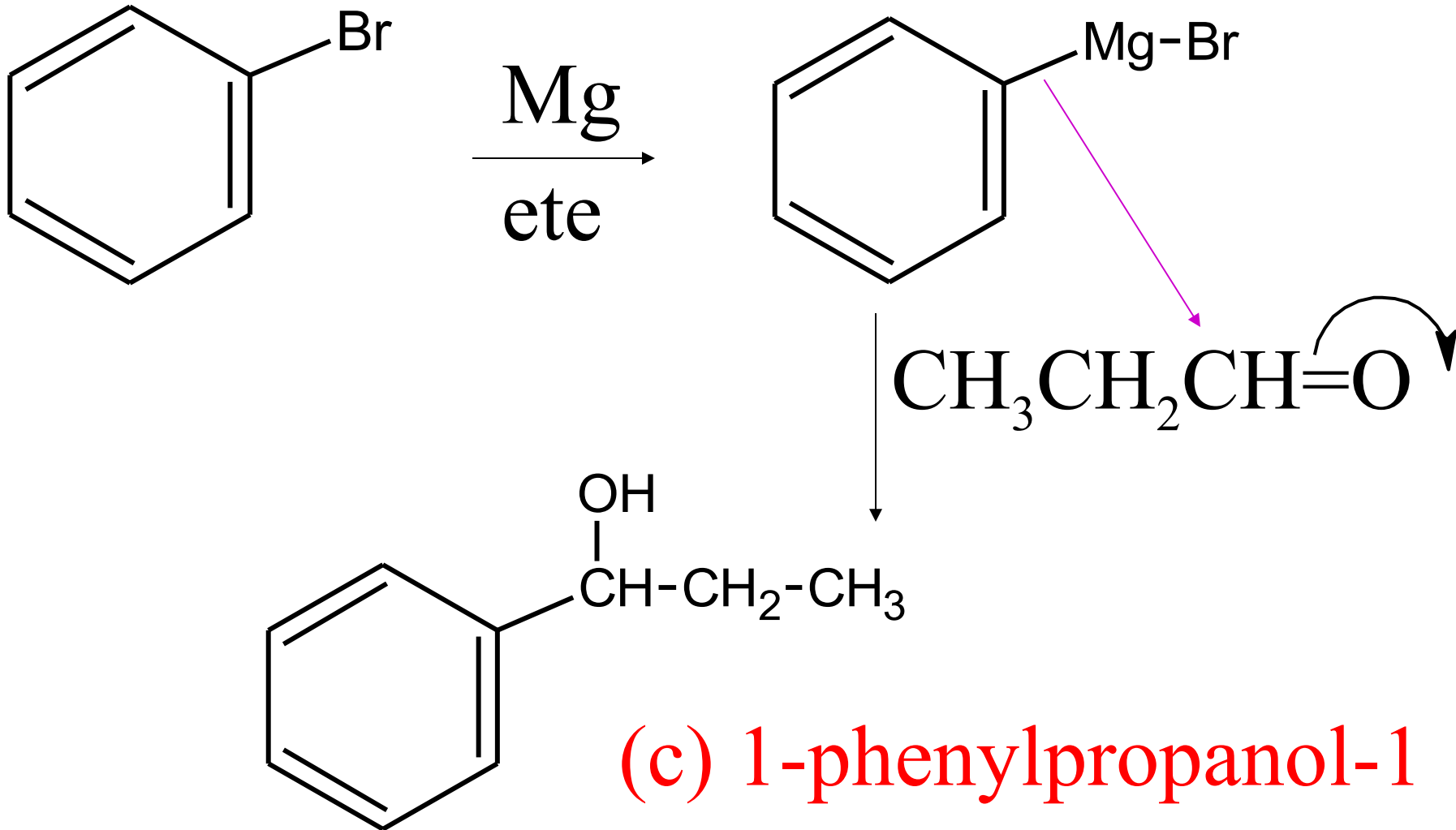
5. 2 rượu:penyanol-2(I) và pentanol-3(II)  
Rượu nào có đồng phân quang học?



(b). I

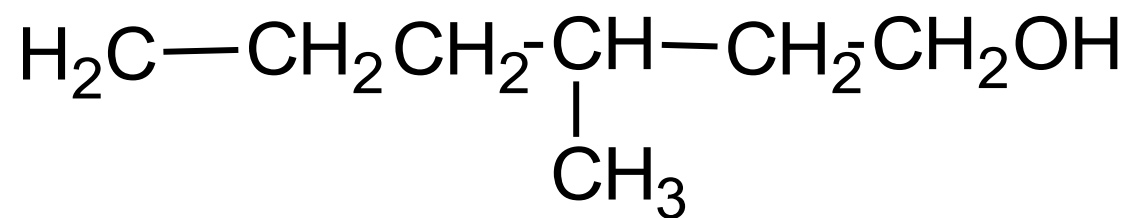
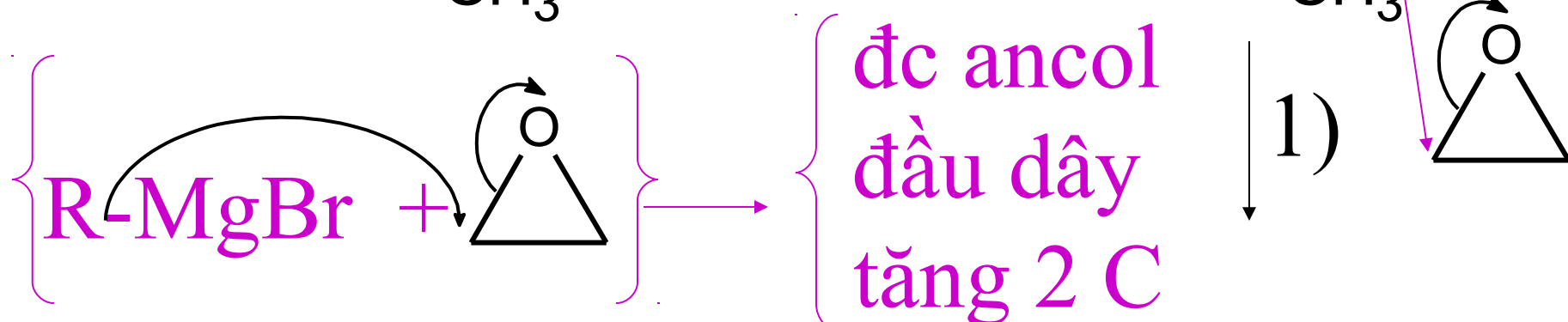
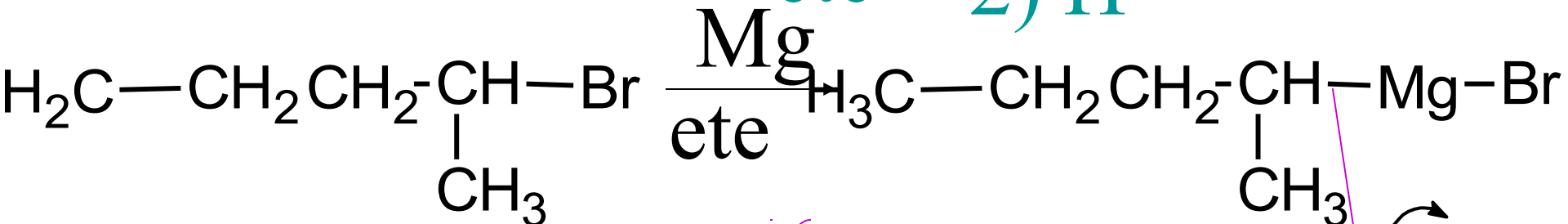


6. Brombenzen pư với Mg trong ete khan cho ra A. Sp của pư giữa A và propanal là:



# 7. Pur cho 3-Metylhexanol-1

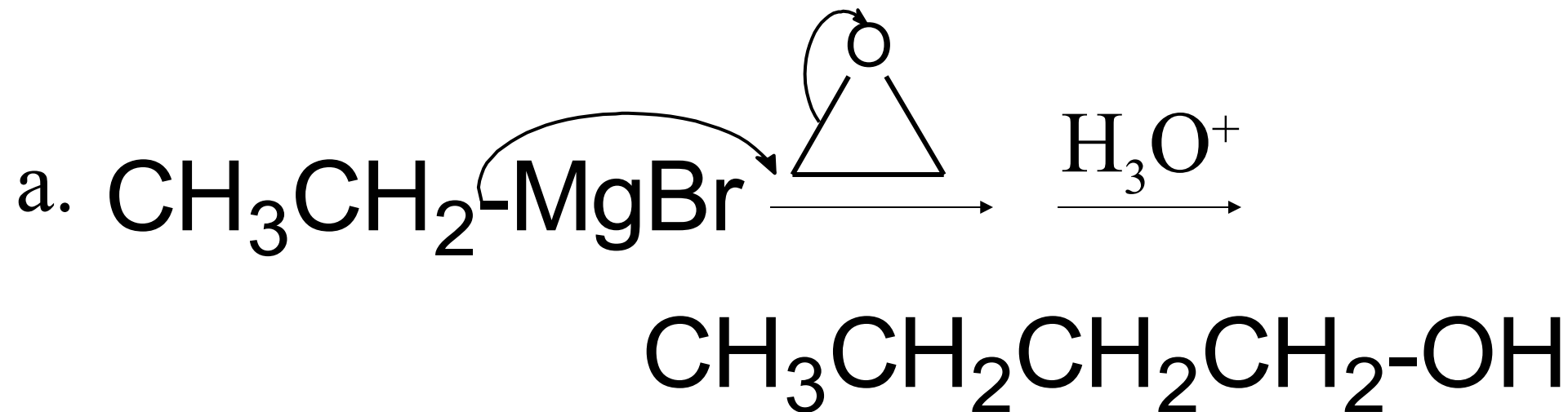
## a. 2-Brompentan



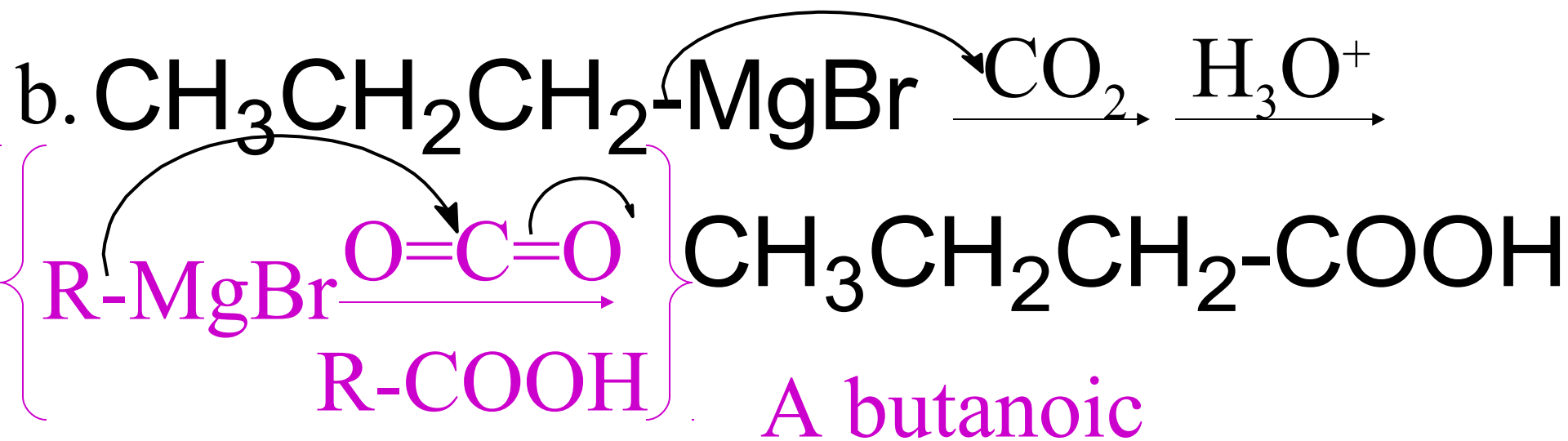
3-Metylhexanol-1

Câu a

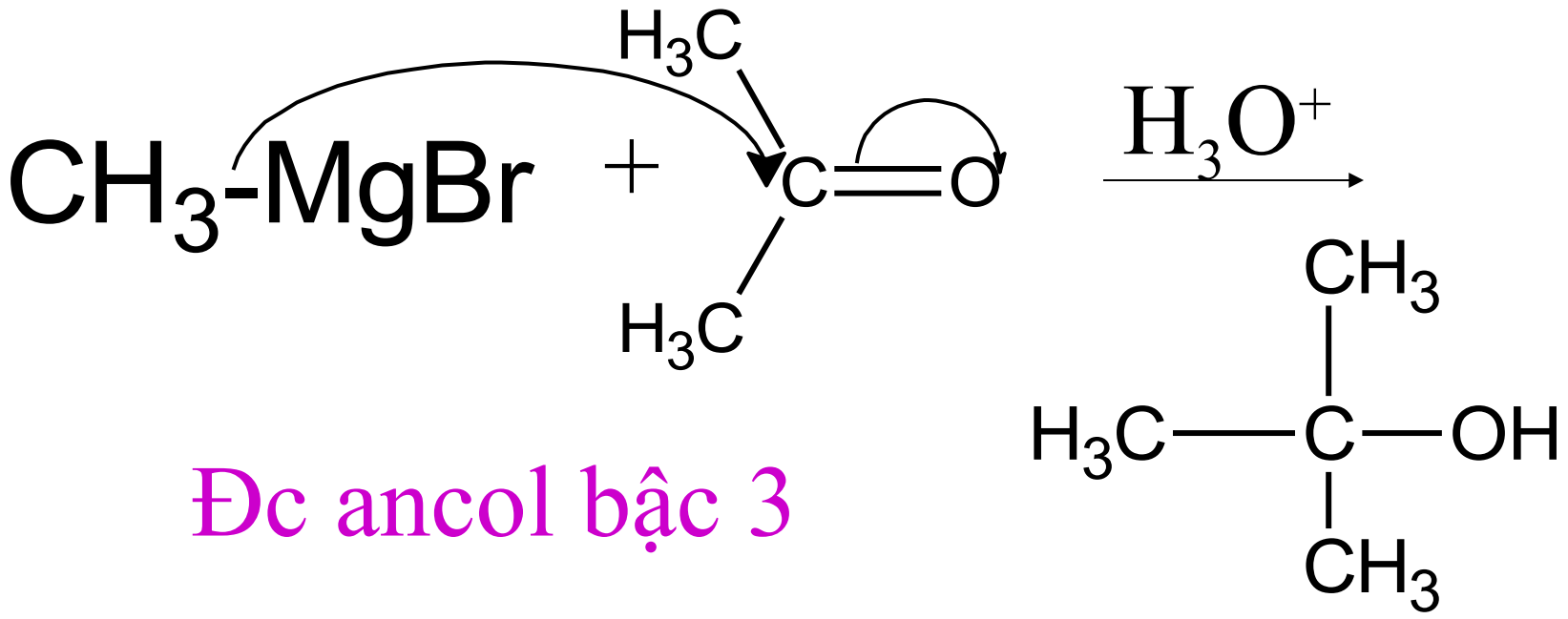
## 8. Pư nào cho Butanol-2?



Butanol-1



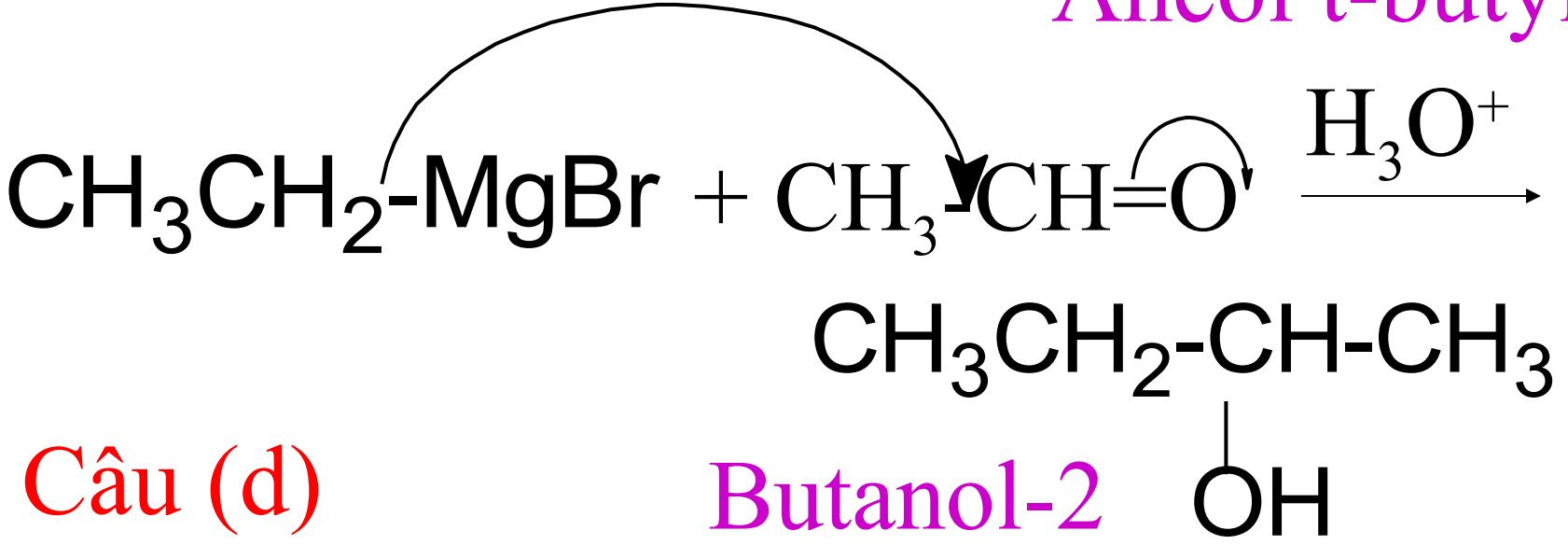
c.



Độc ancol bậc 3

Ancol t-butylic

d.

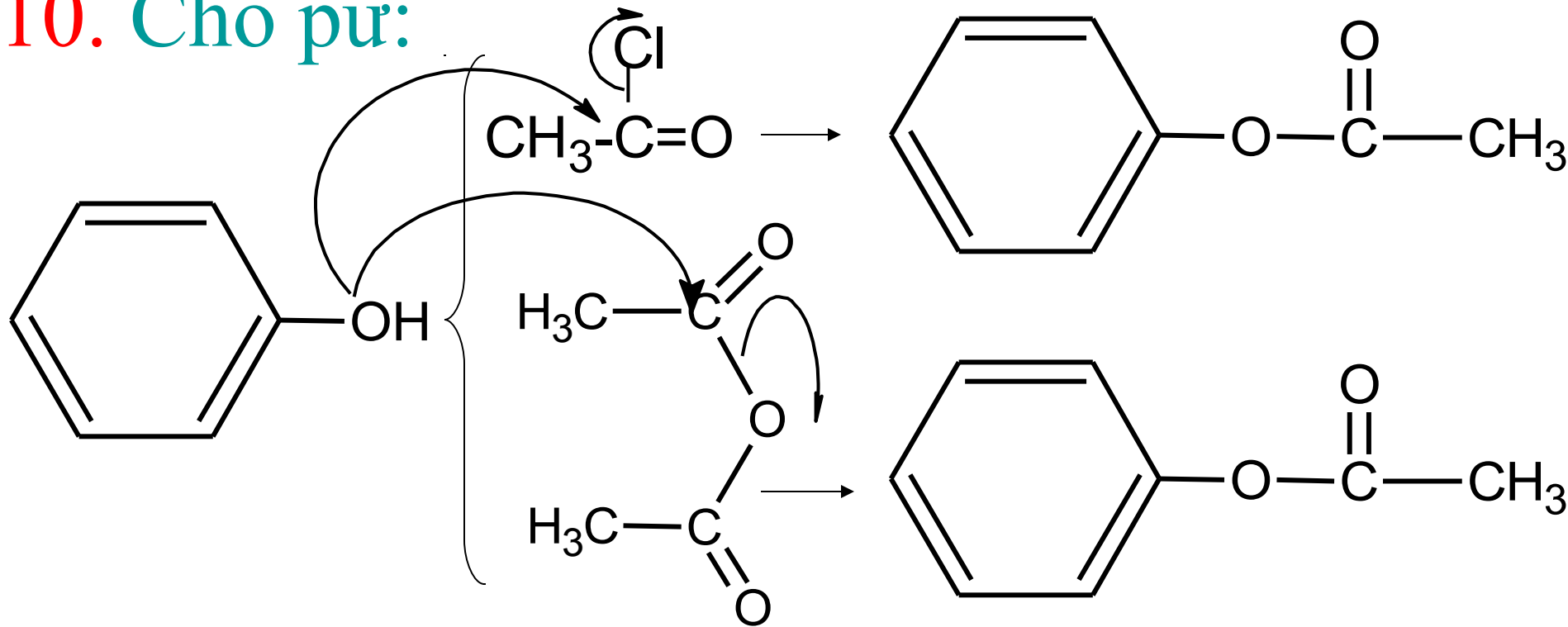


Câu (d)

Butanol-2



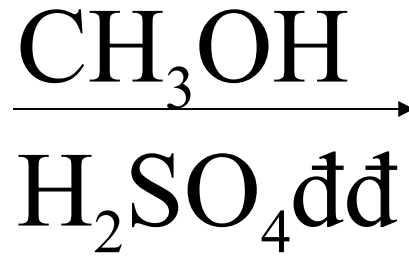
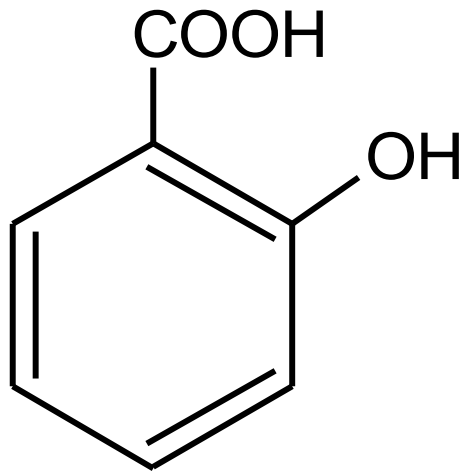
# 10. Cho pư:



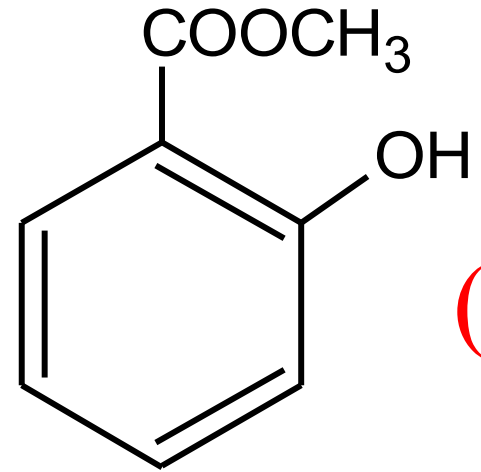
c. Điều là  $C_6H_5OC(=O)CH_3$



# 11. Cho pư:



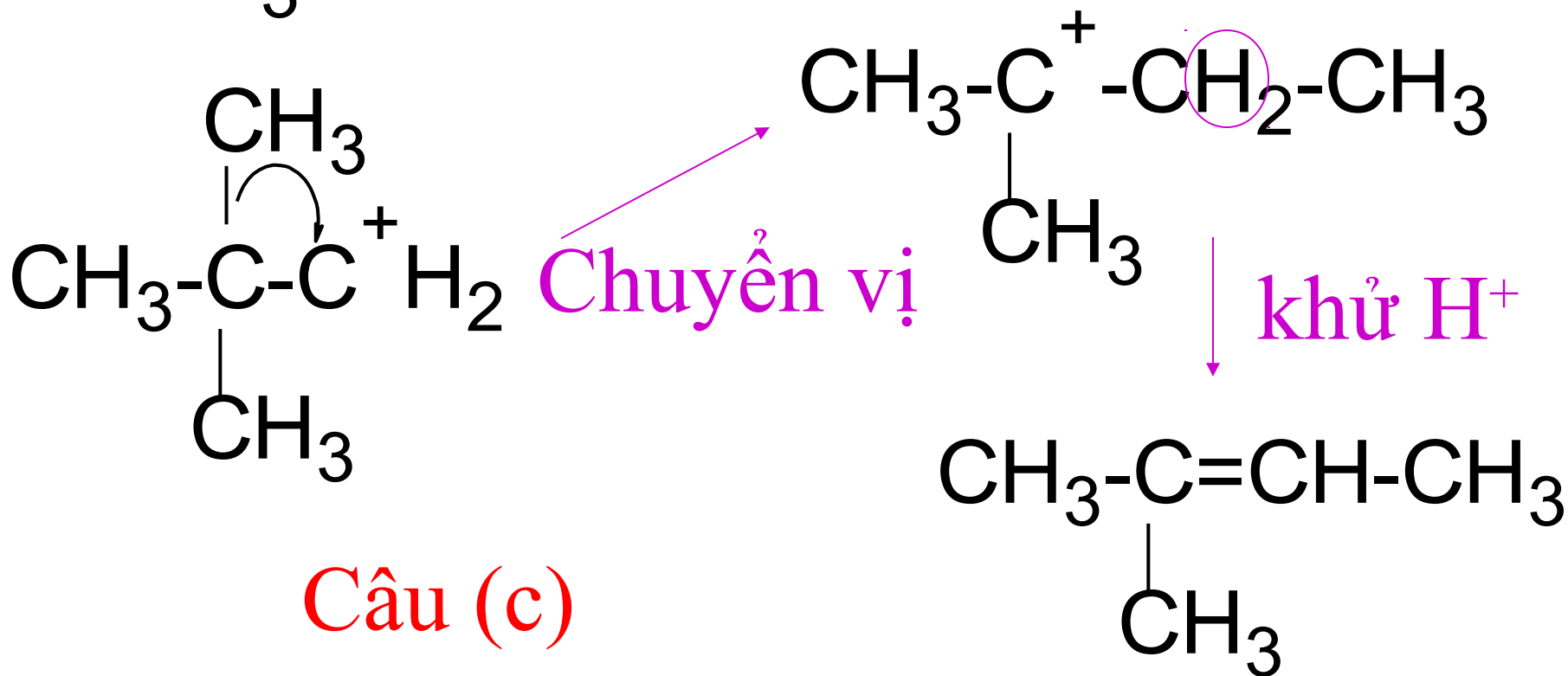
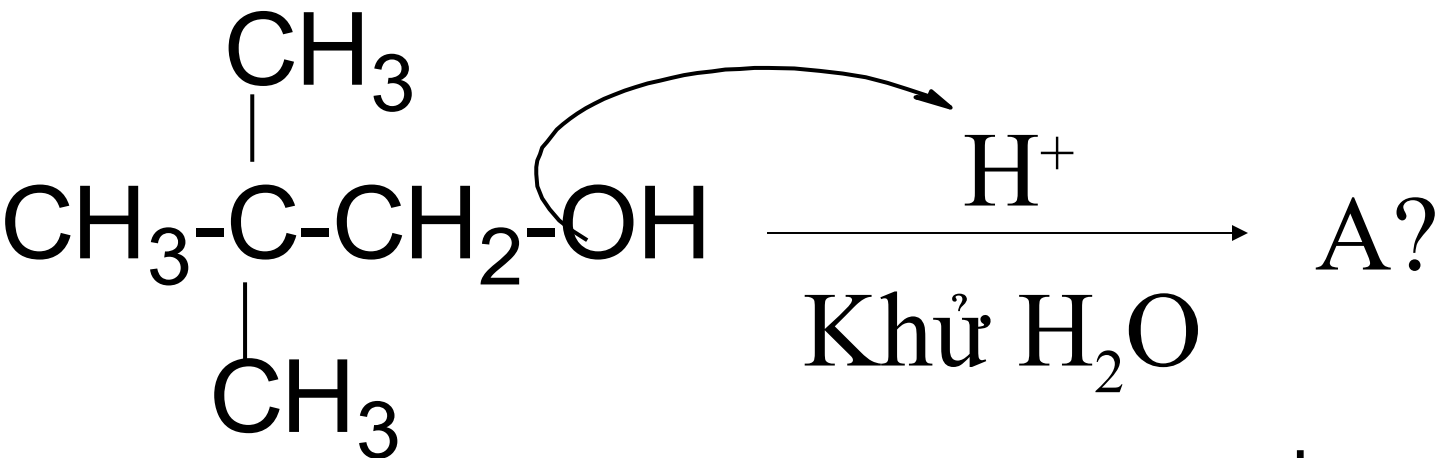
A?



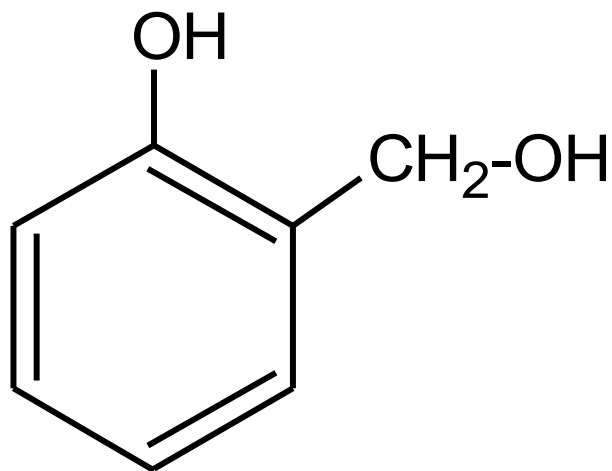
(a)



### 13. Cho pư:



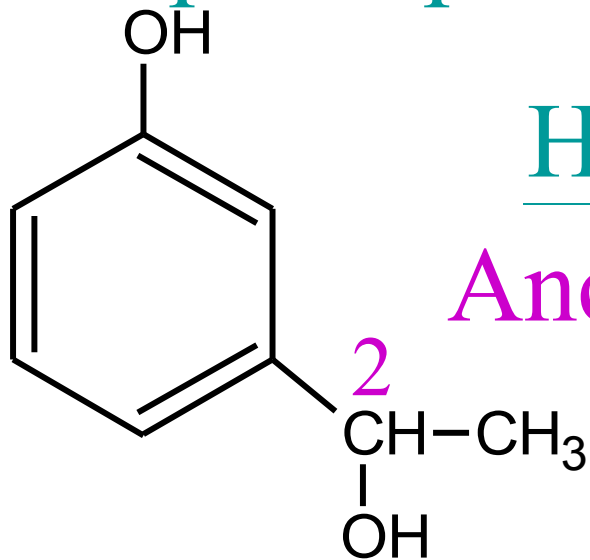
14. Sp của pư:



Câu (d)

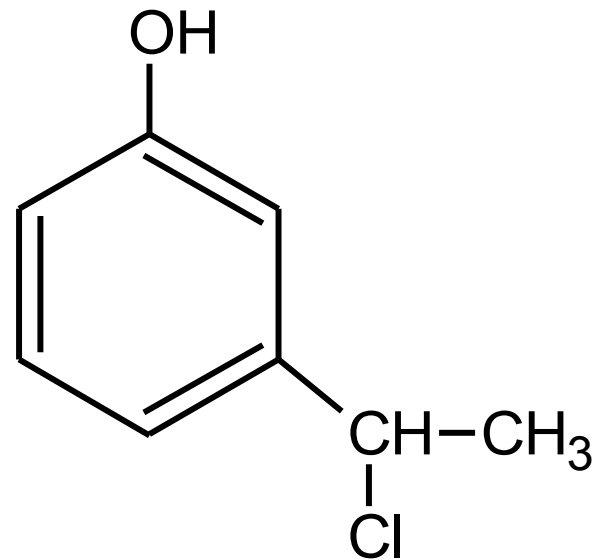
Ancol bậc 1 và phenol không pư

15. Sp của pư:

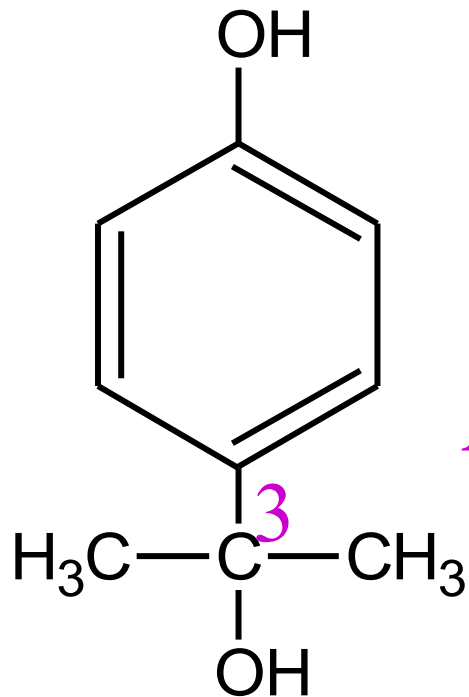


Ancol bậc 2: pư

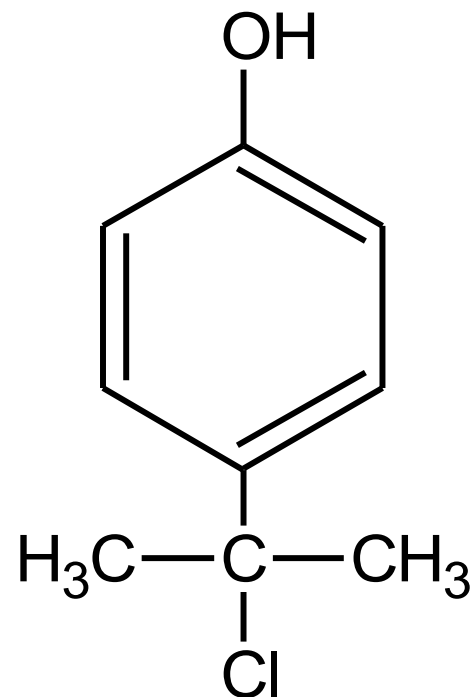
Câu (b)



## 16. Sp của pư:

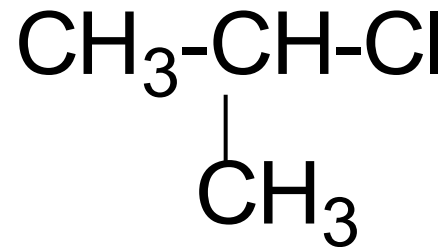
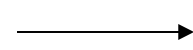
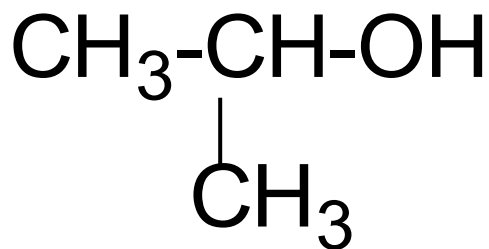


Ancol bậc 3: pư



Câu (b)

## 17. Tác chất?



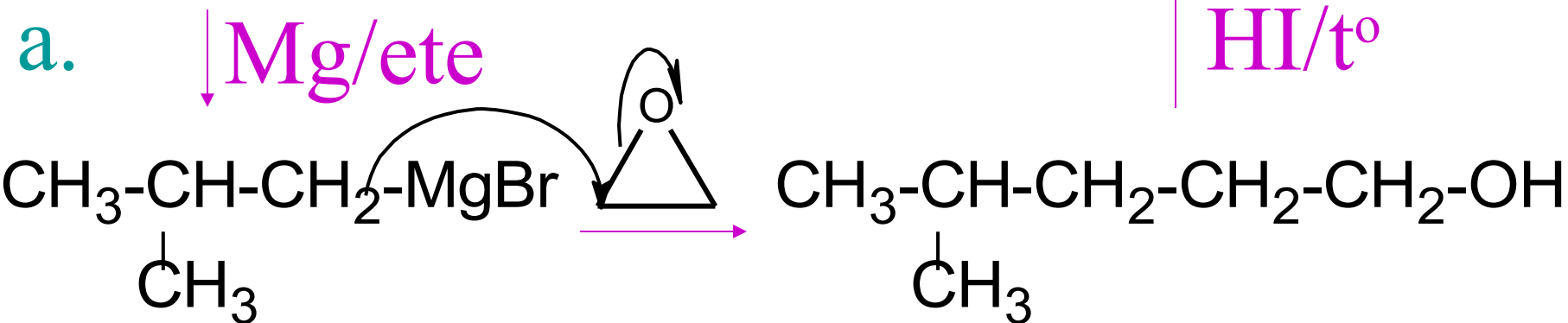
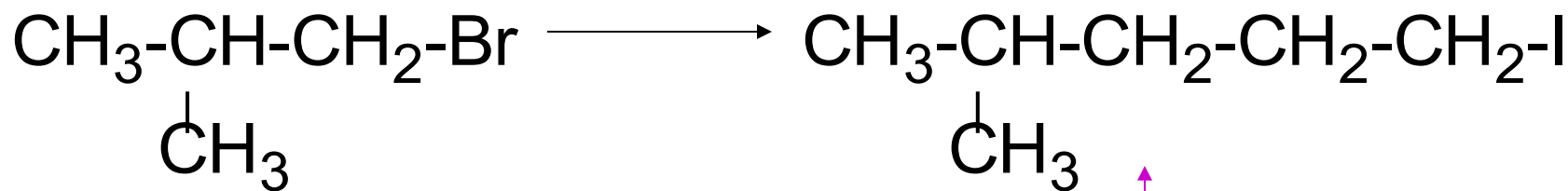
(b).  $\text{SOCl}_2$

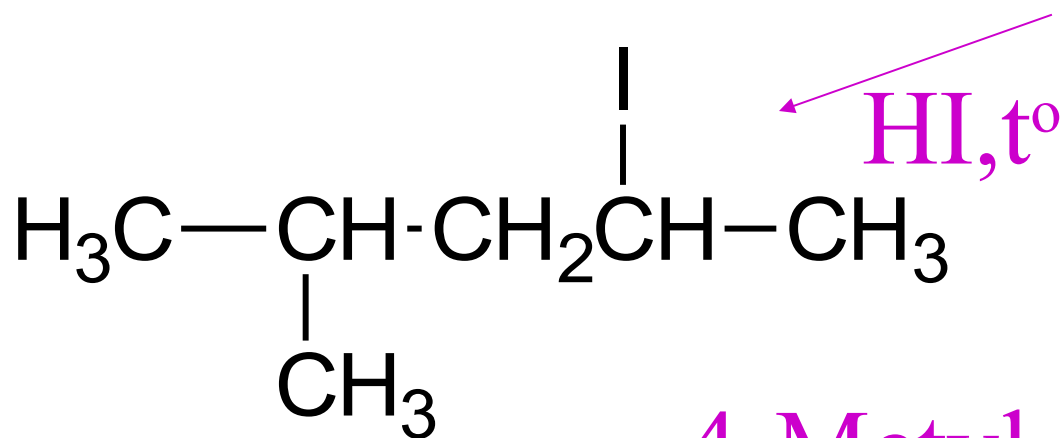
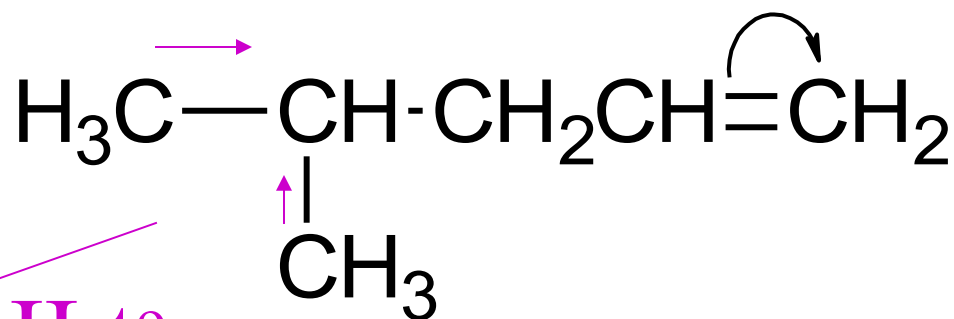
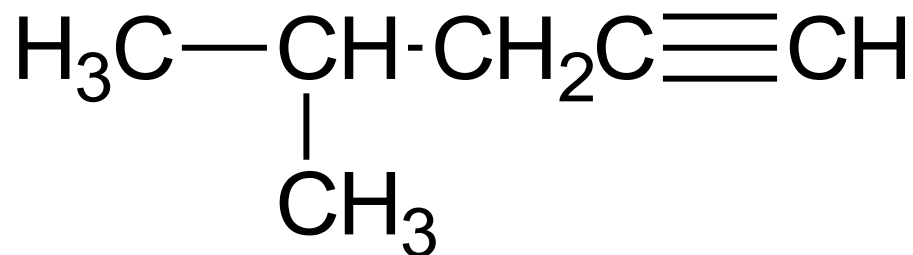
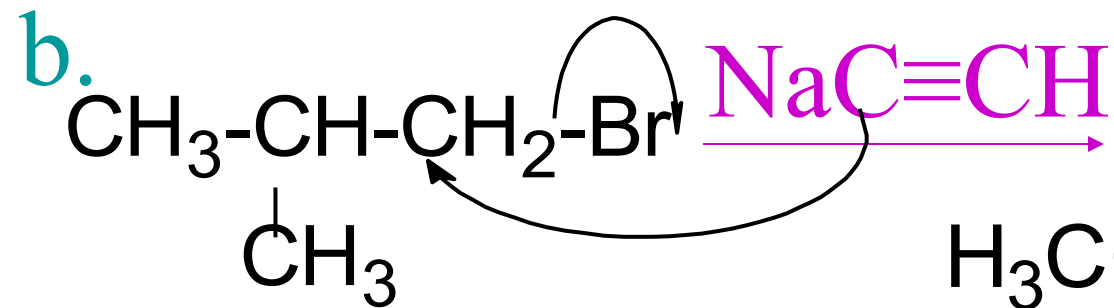
## 18. Sp chính?



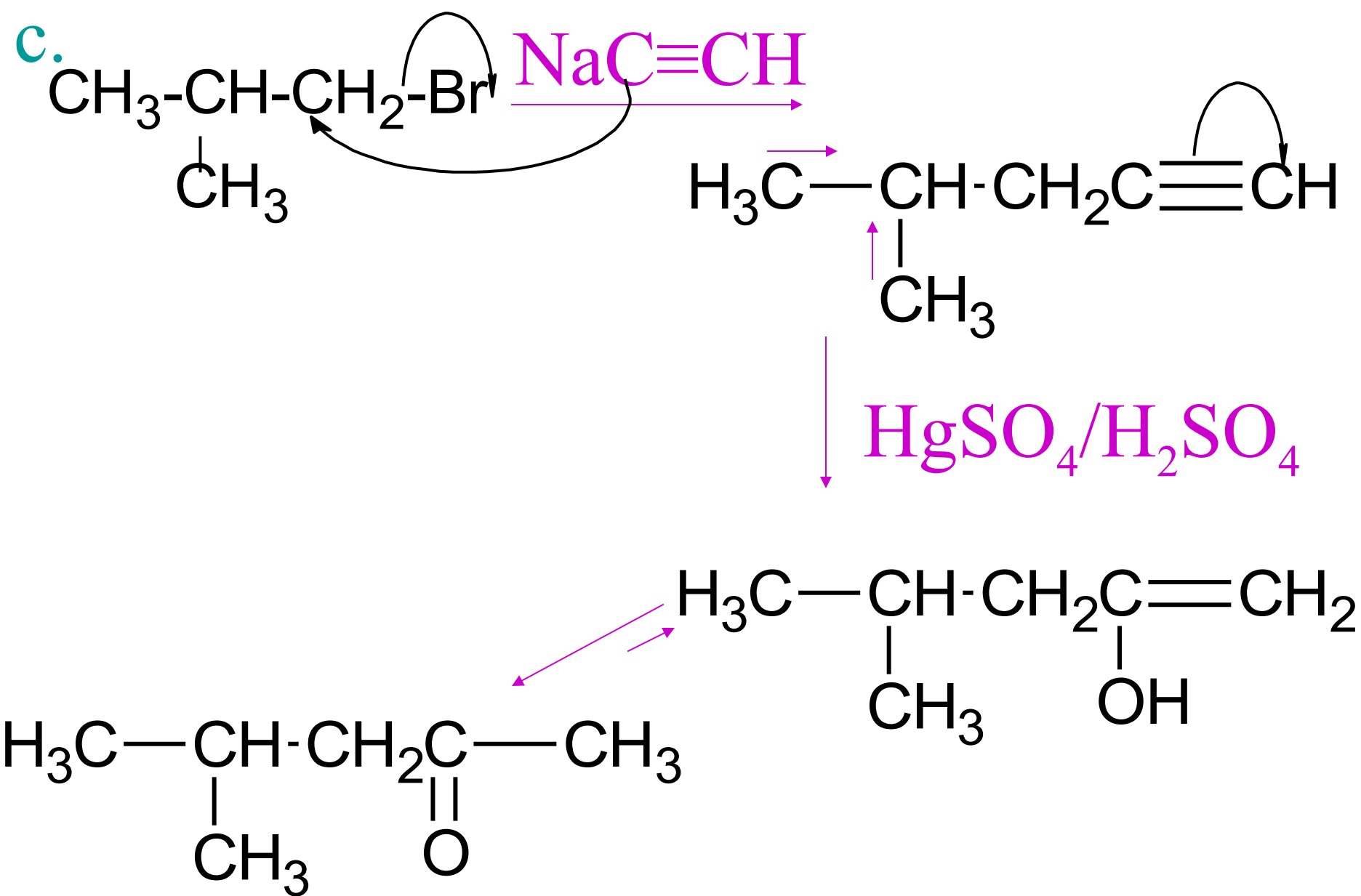
Câu (b)

## 19. 2-Metyl-1-bromopropan → 4-metyl-1-iodpentan ?





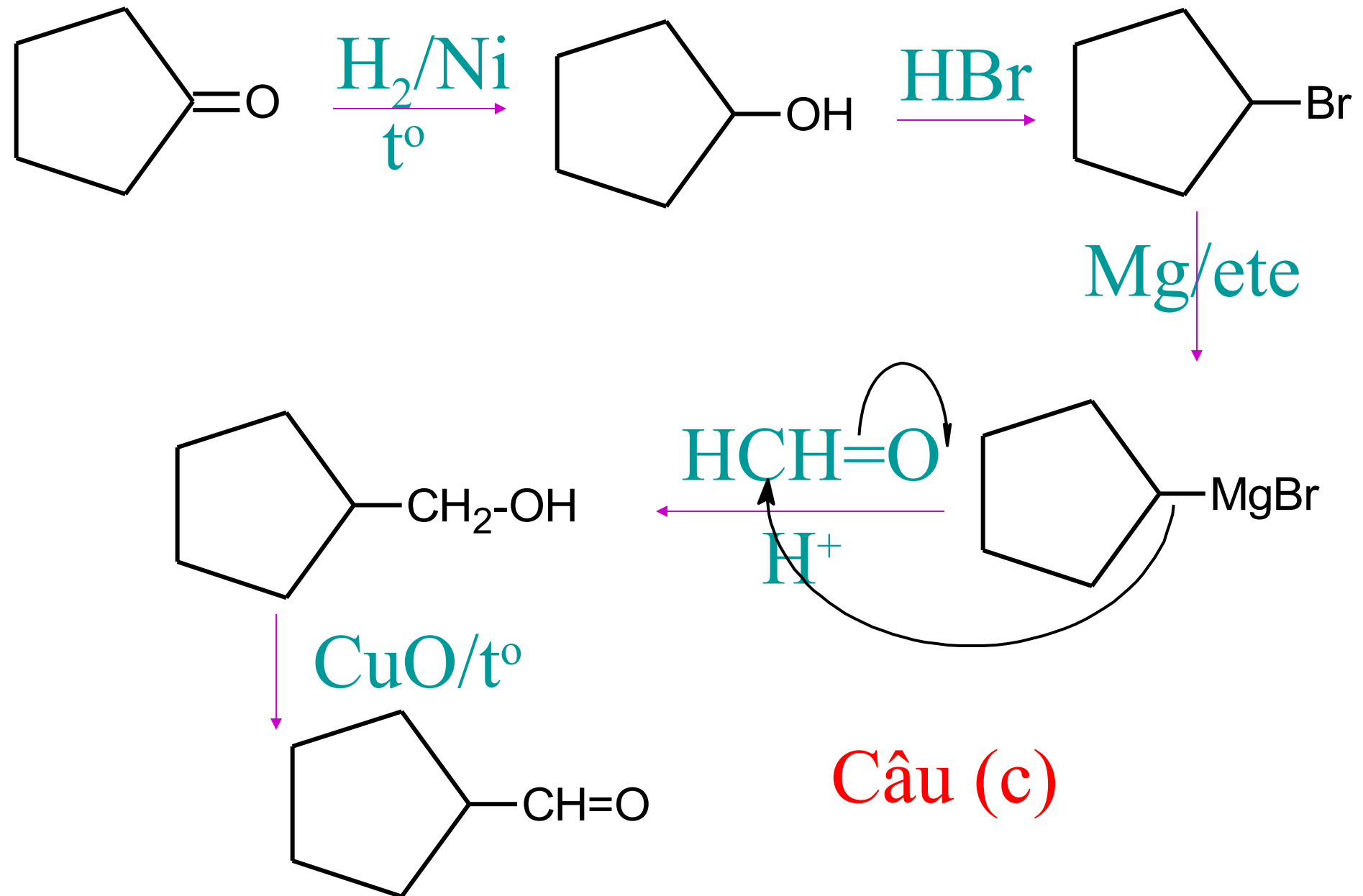
4-Methyl-2-iodopentan



Câu (a)

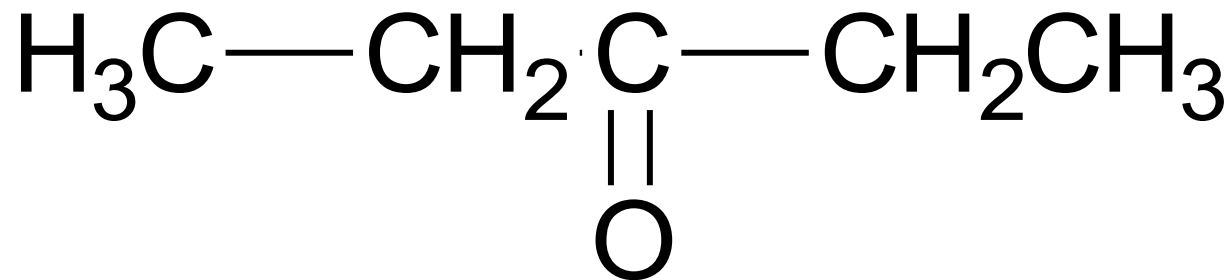


# 20. Sp ?



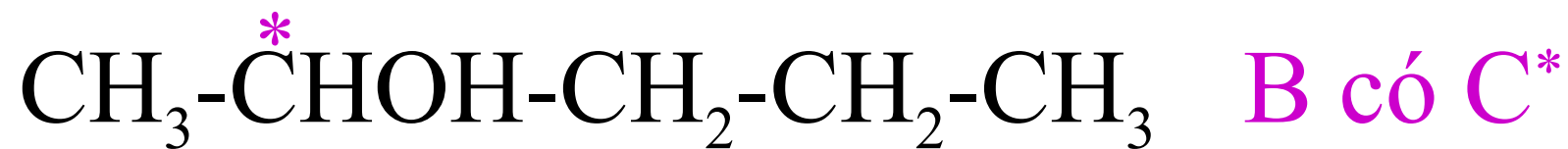
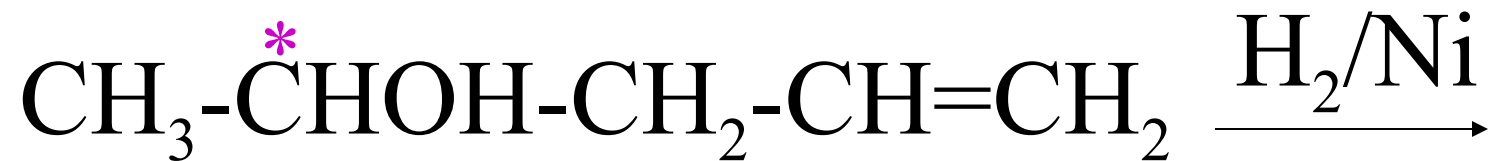


a. 1-Penten-3-ol

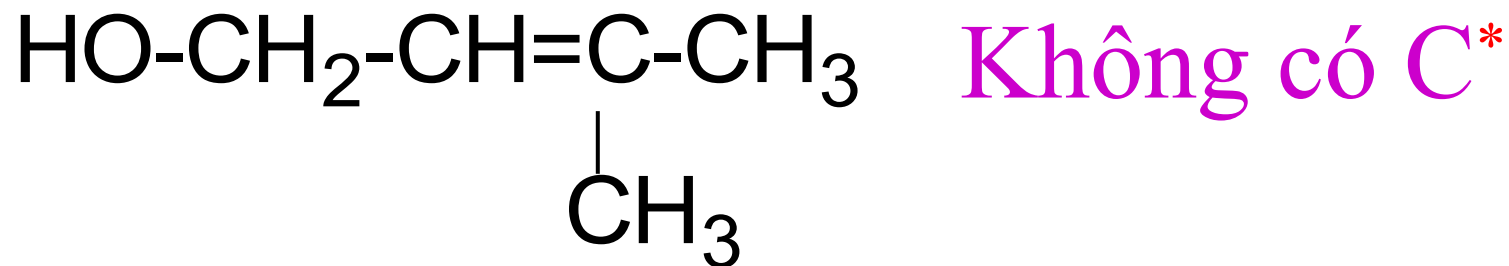


A có tính triền quang, B và C không có.

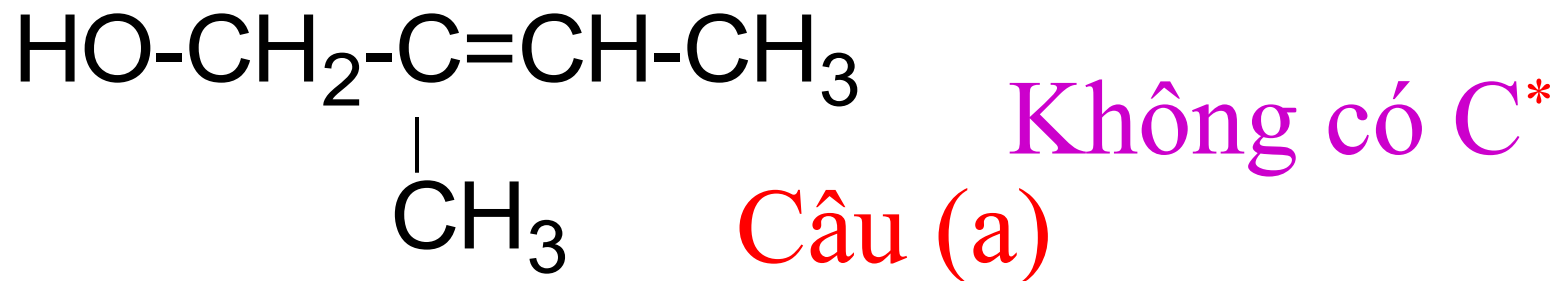
## b. 4-Penten-2-ol



## c. 3-Metyl-2-buten-1-ol

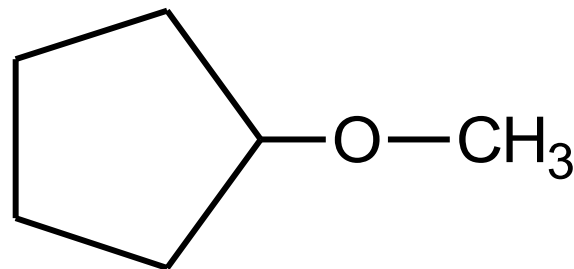
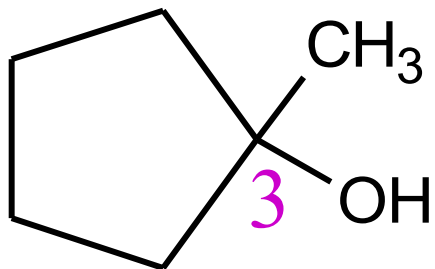


## d. 2-Metyl-2-buten-1-ol

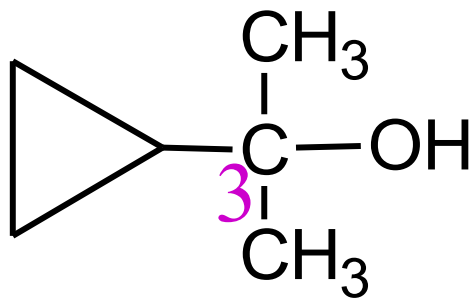


22. A(C<sub>6</sub>H<sub>12</sub>O) + Br<sub>2</sub>/CCl<sub>4</sub> không pư, nhưng pư với H<sub>2</sub>CrO<sub>4</sub>. A là:

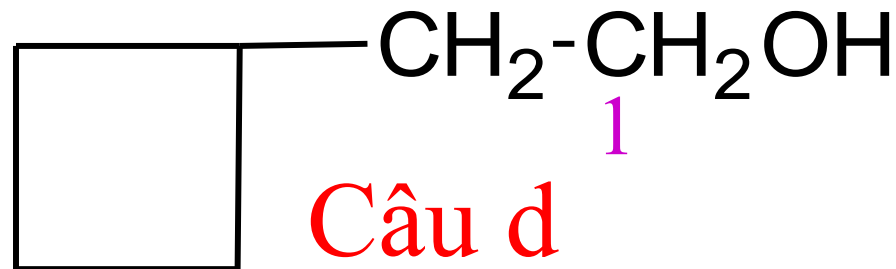
a. 1-Metylxiclopentanol b. Metoxixiclopentan



c. 2-xiclopropylpropanol-2

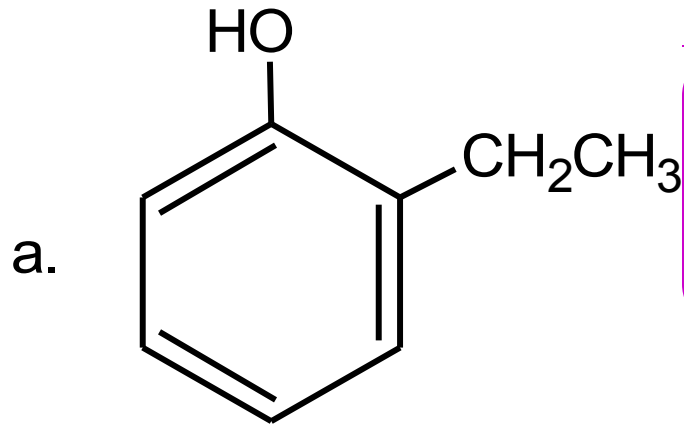


d. 2-xiclobutyletanol

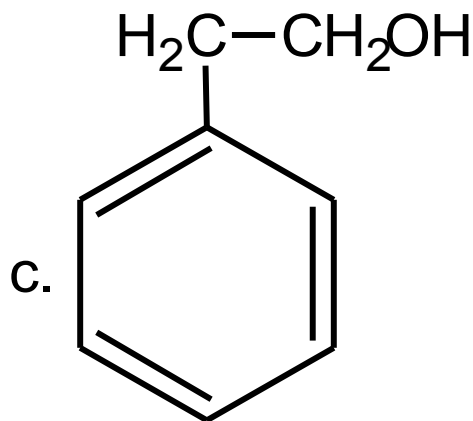
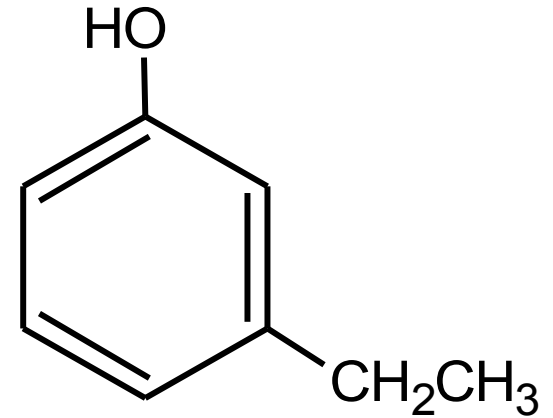


Chỉ có ancol bậc 1 và 2 mới pư với H<sub>2</sub>CrO<sub>4</sub>

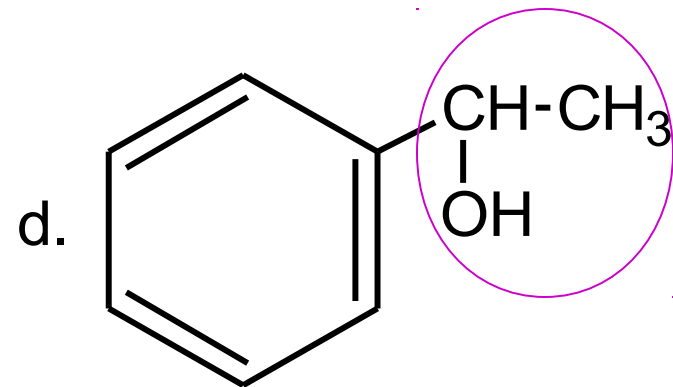
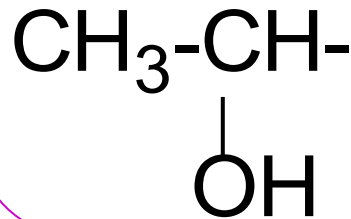
23.  $A(C_8H_{10}O)$  là dẫn xuất của benzen. A tác dụng với Na và cho pư haloform. A ?



Pư với  
Na  $\Rightarrow$  -OH



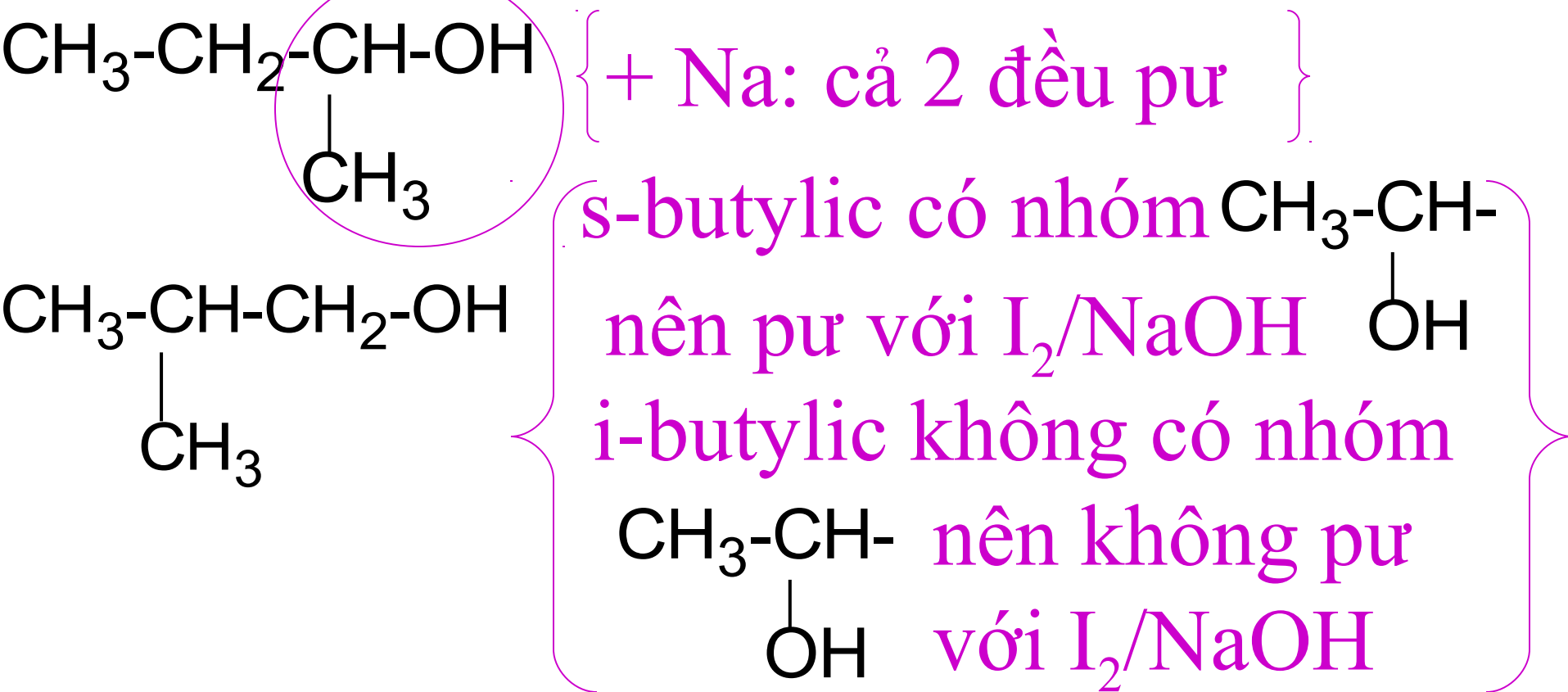
Cho pư  
haloform  $\Rightarrow$



Câu (d)

24. Để phân biệt rượu s-butylic và i-butylic có thể dùng

a. Na    b.  $I_2/NaOH$     c. a,b đúng    d. a,b sai



Cau (b)

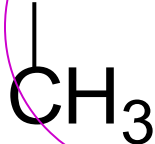
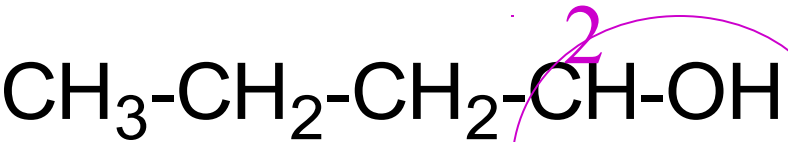
25. Để phân biệt rượu s-amylic và i-amylic có thể dùng:

+Na: cả 2 đều pư

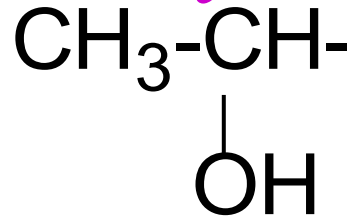
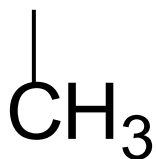
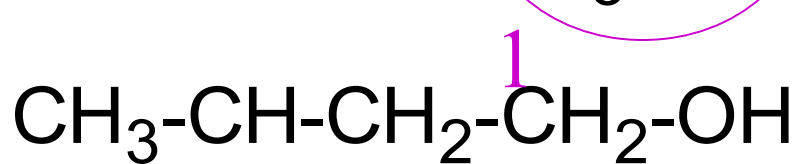
a. Na      b. I<sub>2</sub>/NaOH

c. ZnCl<sub>2</sub>/HCl      d. b,c được

s-amylic có nhóm  
CH<sub>3</sub>-CH- nên pư với



i-amylic không có nhóm



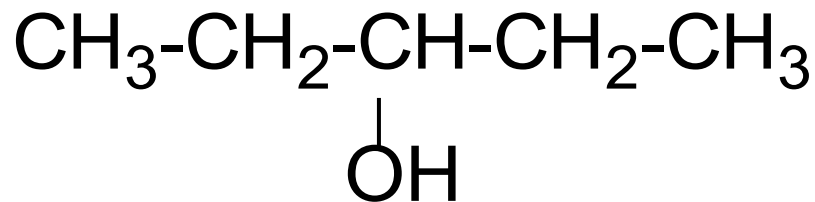
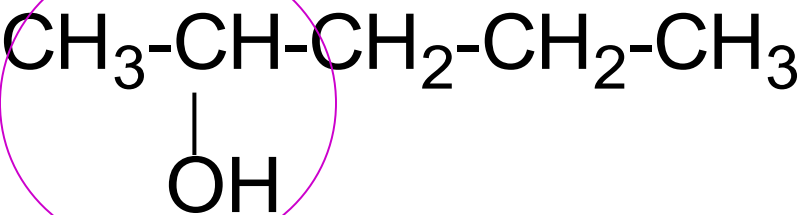
nên không pư  
với I<sub>2</sub>/NaOH

Câu d

s-amylic: bậc 2: pư được với ZnCl<sub>2</sub>/HCl

i-amylic: bậc 1: không pư với ZnCl<sub>2</sub>/HCl

## 26. Phân biệt pentanol-2 và pentanol-3:

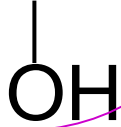
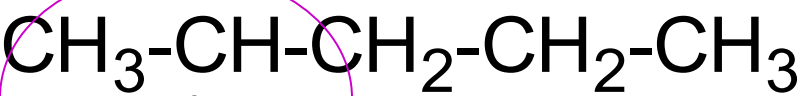
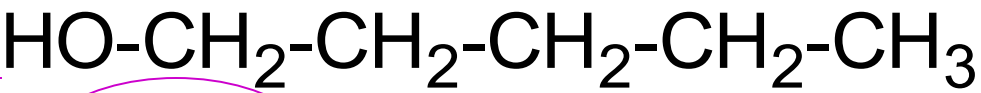


- \* Na: cả 2 đều pư
- \*  $\text{CuO}, t^\circ$ : cả 2 đều cho xeton
- \*  $\text{I}_2/\text{NaOH}$ : Chỉ có pentanol-2 pư

(c) ( $\text{I}_2/\text{NaOH}$ )



27. Phân biệt 4 chất lỏng: pentanol-1, pentanol-2, pentanol-3, 2-Metylbutanol-2:



\* Na: cả 4 đều pư

\* CuO, t<sup>o</sup>: (I) cho andehid, (II), (III) cho xeton, (IV) không pư. + AgNO<sub>3</sub>/NH<sub>3</sub>

chỉ andehid pư

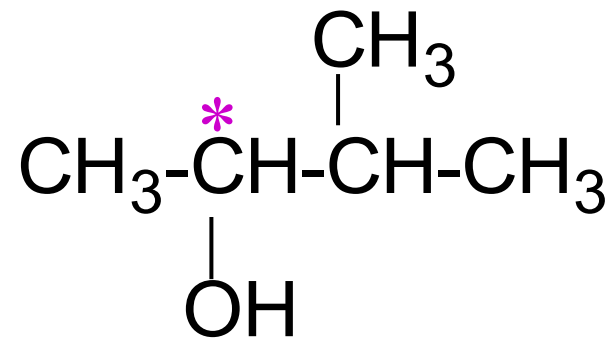
\* Tt Lucas: (I) không pư, (II) (III) pư chậm, (IV) pư nhanh.

\* I<sub>2</sub>/NaOH: (II) pư

Câu (d)

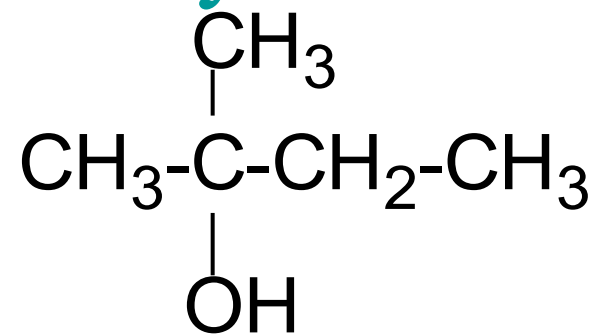
28. Rượu A(C<sub>5</sub>H<sub>12</sub>O) không pư với tt Lucas ở t<sup>o</sup> thường, có tính quang hoạt. A là:

a. 3-Metylbutanol-2



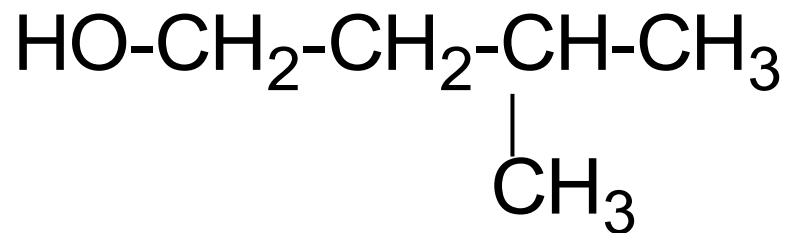
Pư với tt Lucas

b. 2-Metylbutanol-2



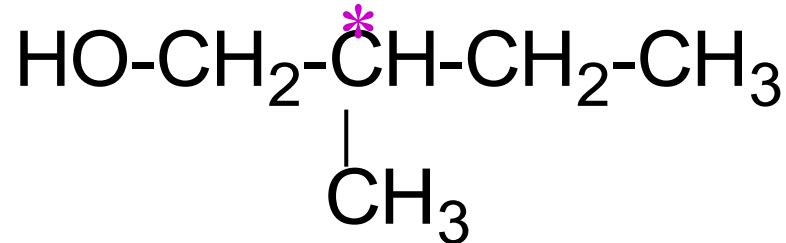
Không có C\*

c. 3-Metylbutanol-1



Không có C\* (d)

d. 2-Metylbutanol-1

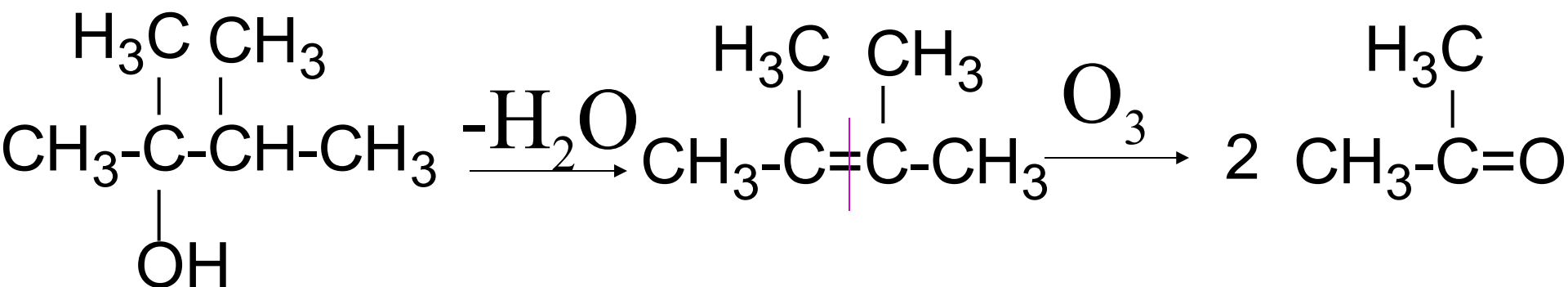


Không pư với tt Lucas

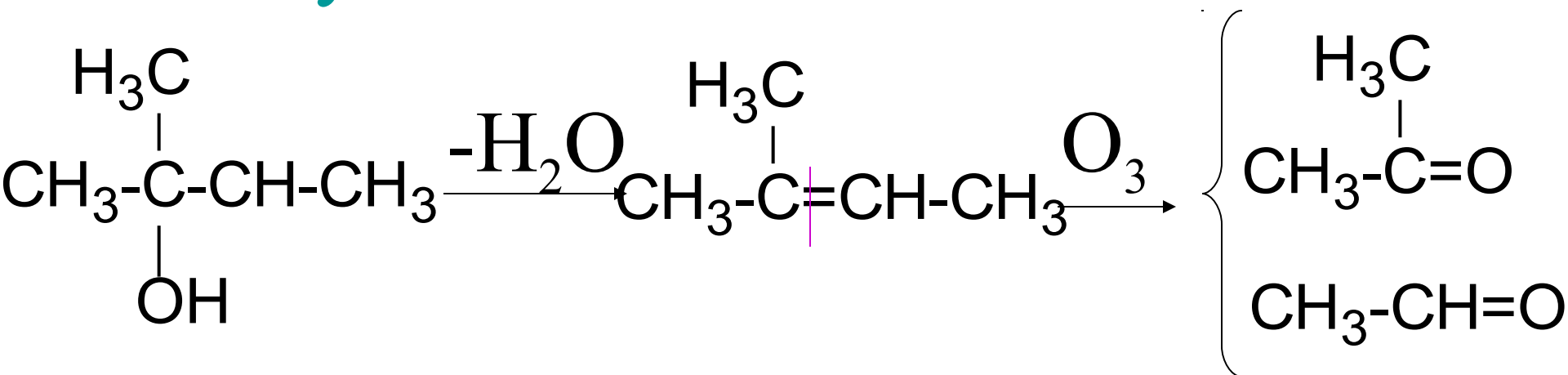
29. Rượu đơn chức(X)[- H<sub>2</sub>O]→anken(Y).

Ozon giải 1 mol (Y) →2 mol axeton. A ?

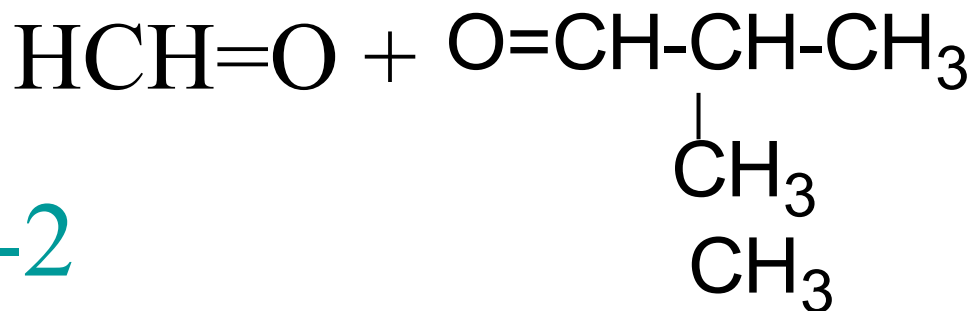
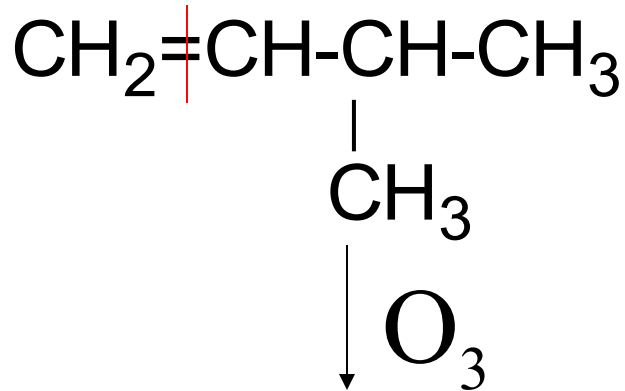
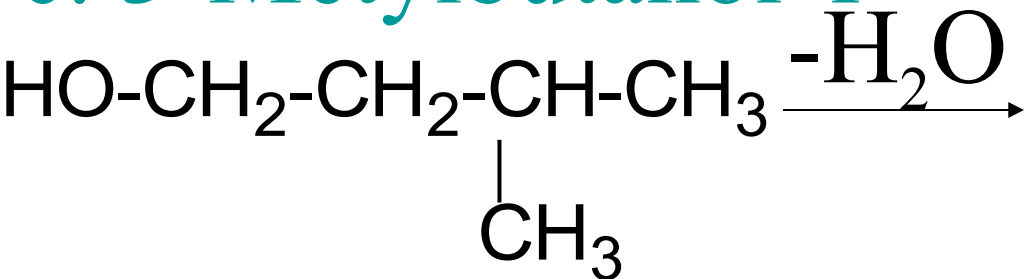
a. 2,3-Dimetylbutanol-2



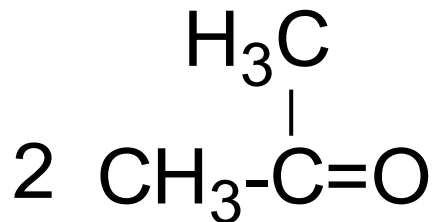
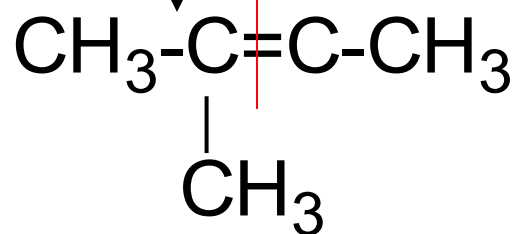
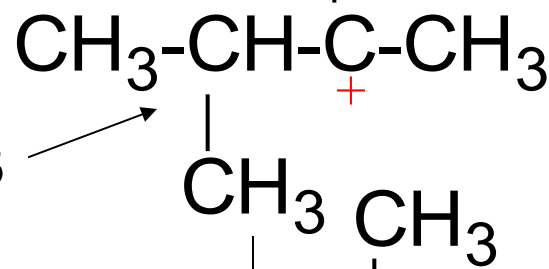
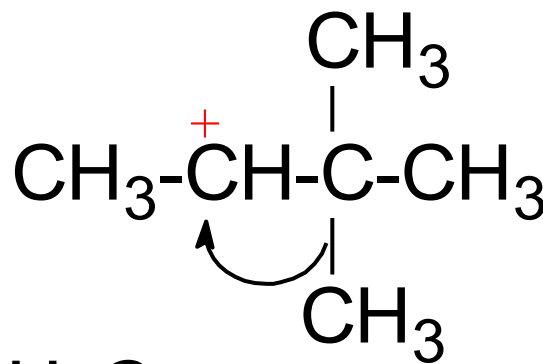
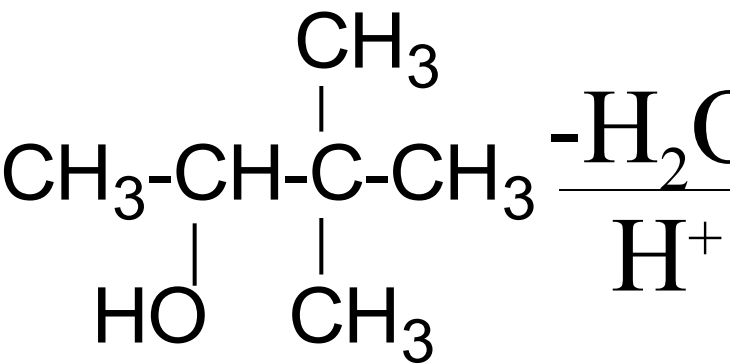
b. 2-Metylbutanol-2



### c. 3-Metylbutanol-1



### d. 3,3-Dimetylbutanol-2



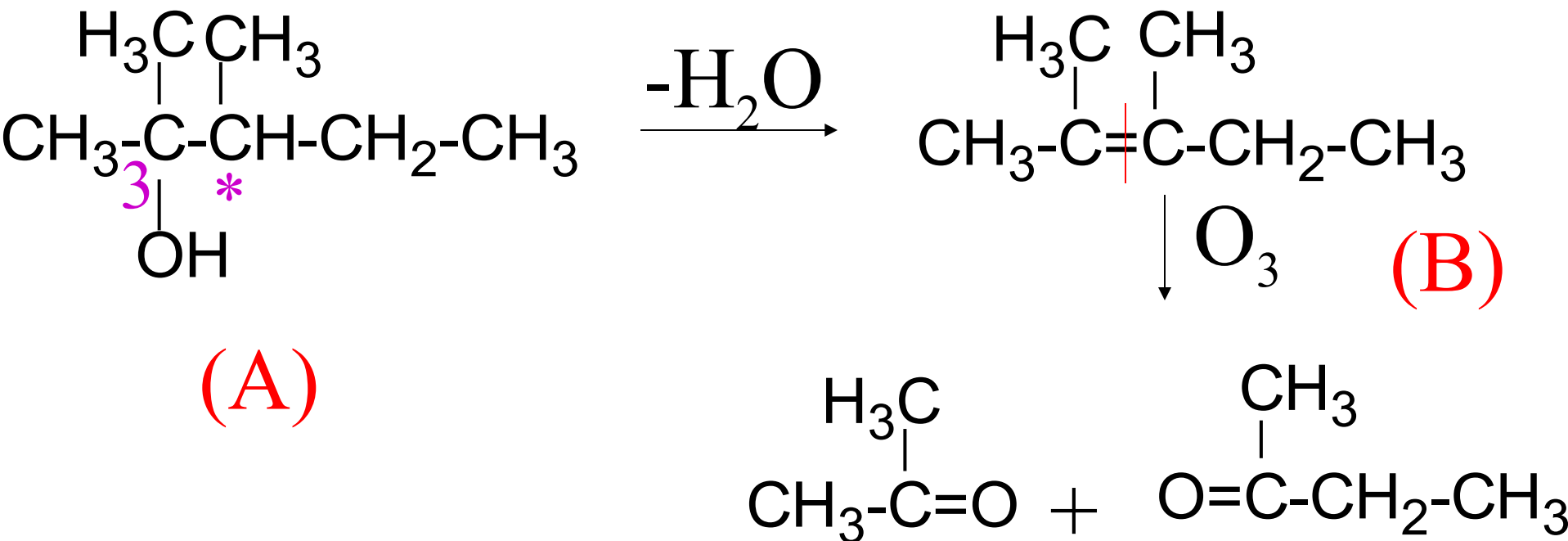
(a) và (d)

30. A (C<sub>7</sub>H<sub>16</sub>O) có tính triền quang, pư nhanh với tt Lucas ở t° thường. A khử H<sub>2</sub>O cho B,

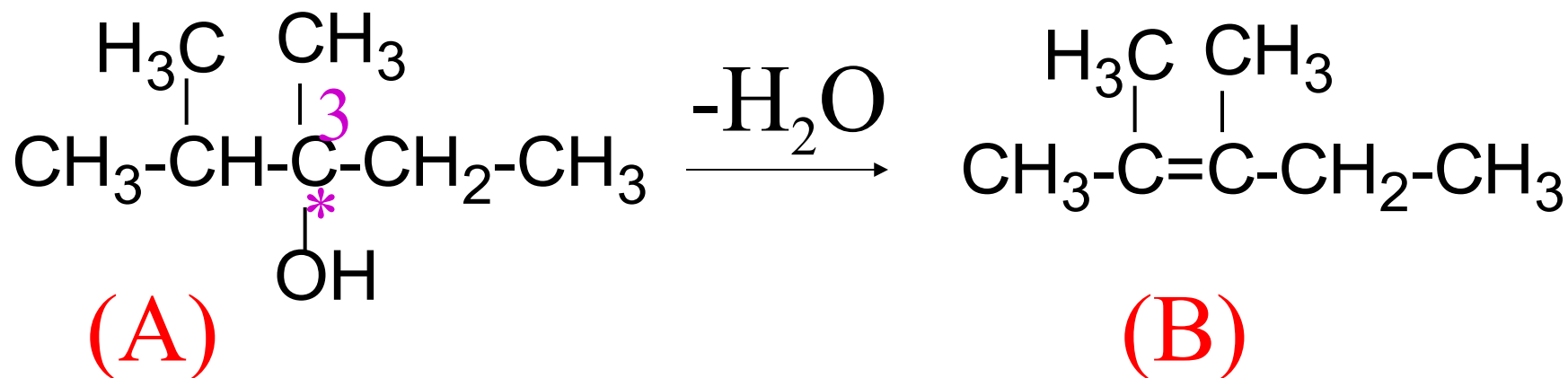
Ozon giải B cho 2 xeton, A, B ?

a. A: 2,3-Dimethylpentanol-2

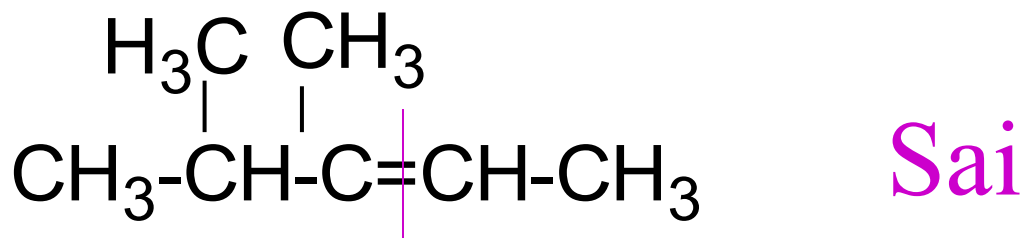
B: 2,3-Dimethylpenten-2



## b. A: 2,3-Dimethylpentanol-3

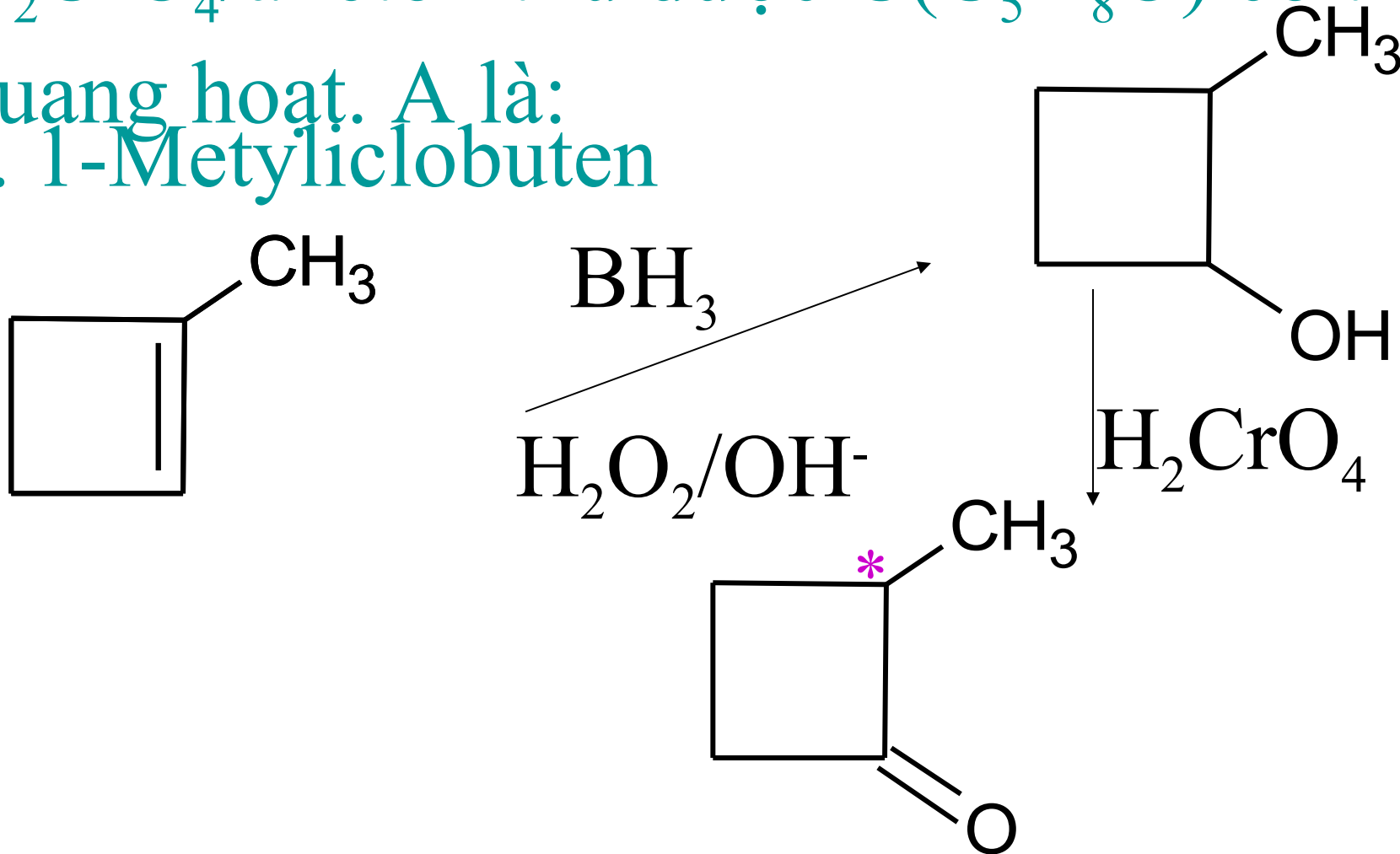


## c. B: 2,3-Dimethylpenten-3

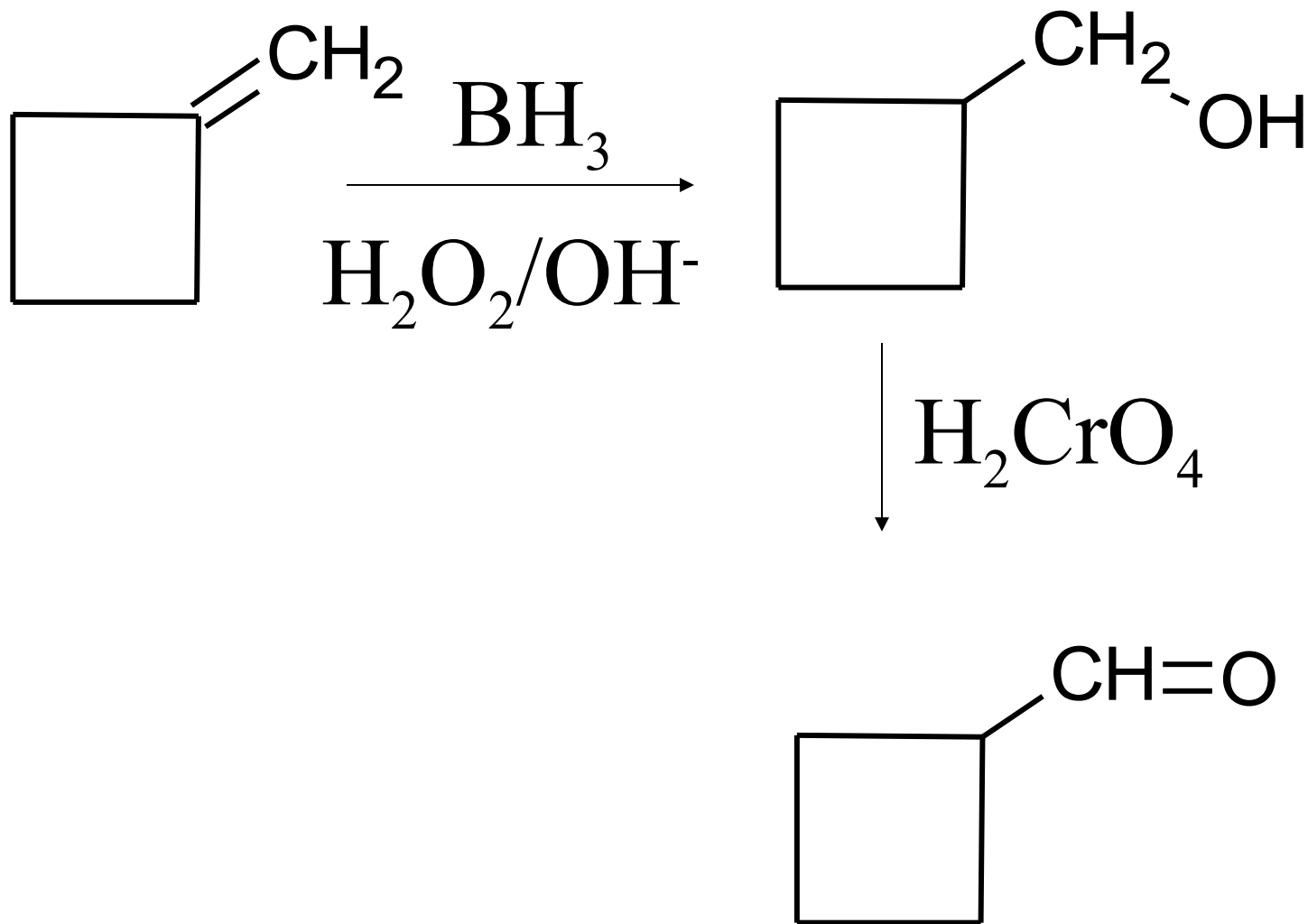


d. a,b đều đúng

31. A( $C_5H_8$ ) pư với  $BH_3$  sau đó xử lý với  $H_2O_2$  trong mt kiềm thu được B. B pư với  $H_2CrO_4$ /axeton thu được C( $C_5H_8O$ ) có tính quang hoạt. A là:  
a. 1-Metyliclobuten



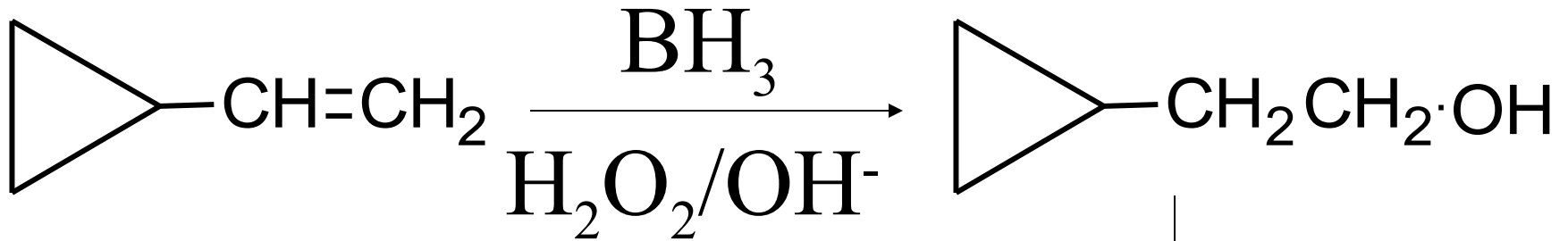
## b. Metylenxiclobutan



Không có C\*

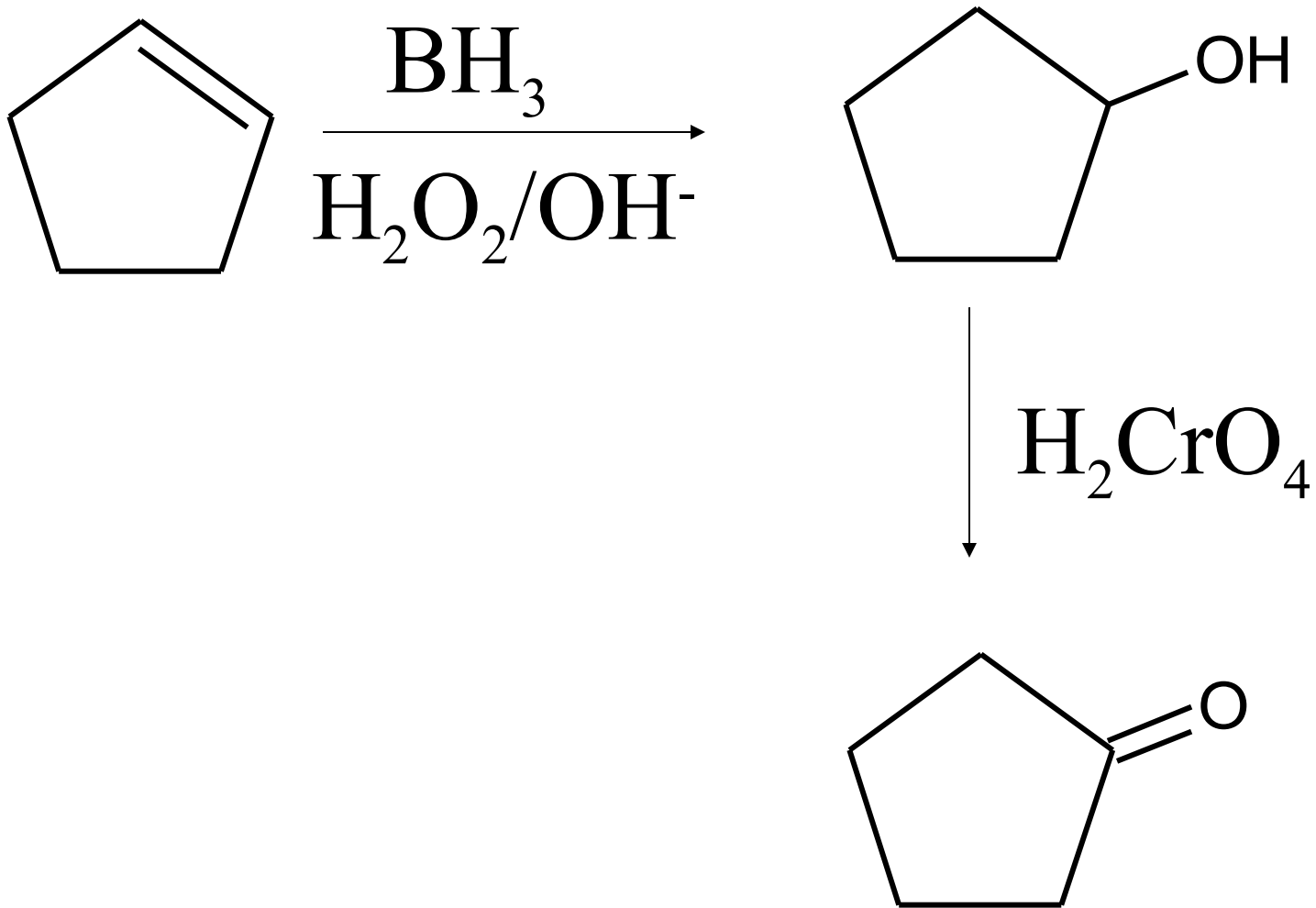


## c. vinylxiclopropan



Không có  $\text{C}^*$

## d. xiclopenten

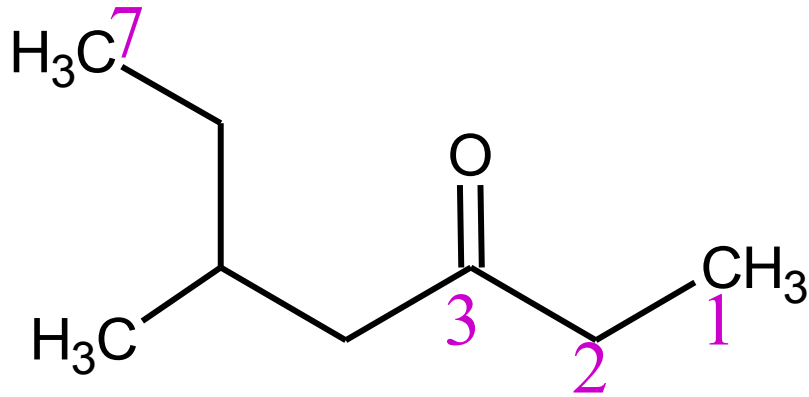


Câu (a)

Không có  $\text{C}^*$

# Chương V: Hợp chất carbonyl

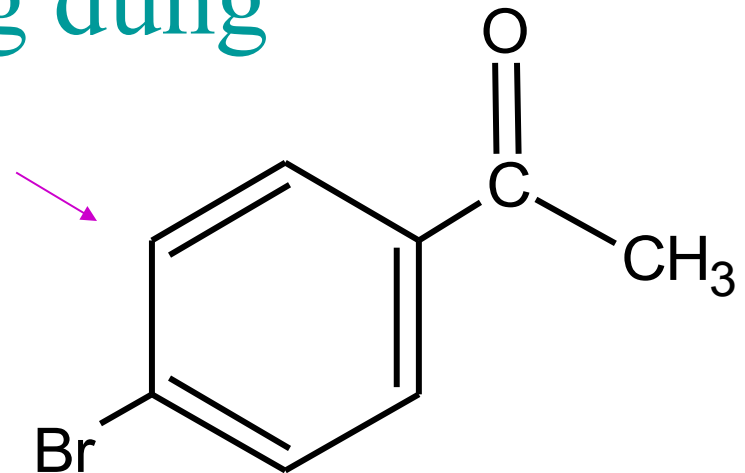
## 1. Tên quốc tế:



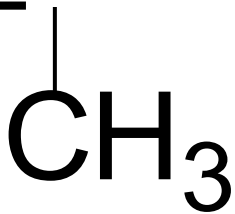
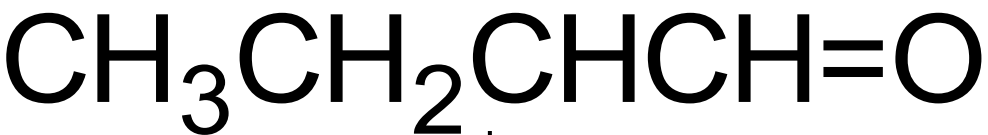
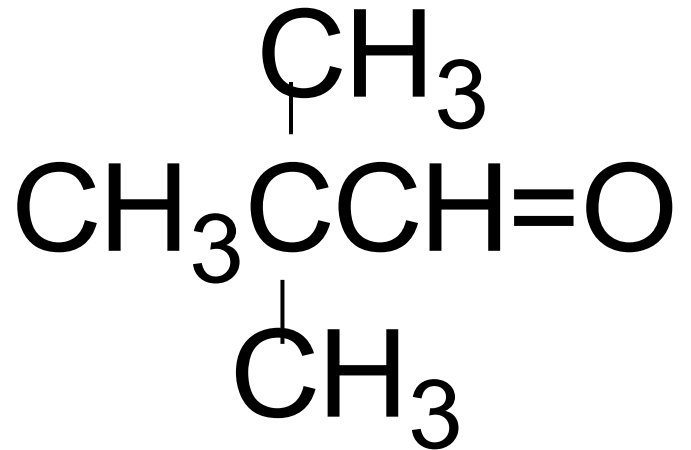
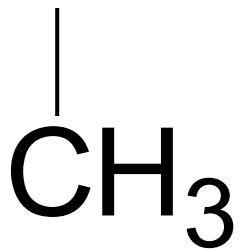
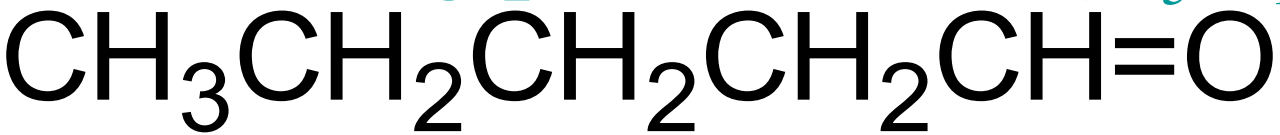
b. 5-Metyl-3-heptanon

## 2. Hợp chất đọc tên không đúng

d. p-Bromaxetophenon



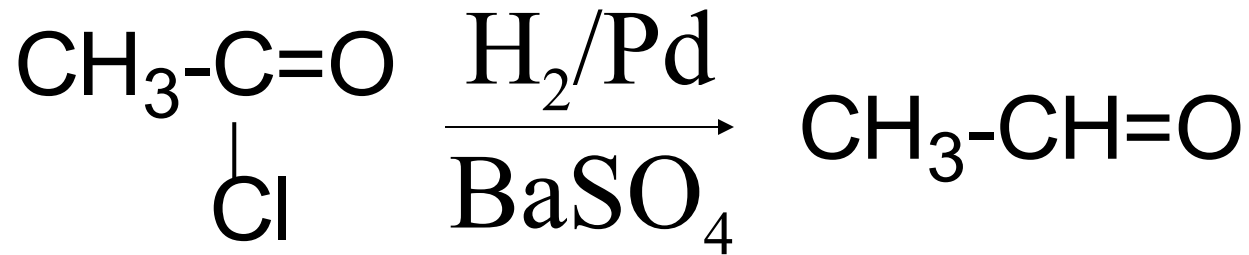
3. Số đồng phân andehit( $C_5H_{10}O$ )



(a) 4

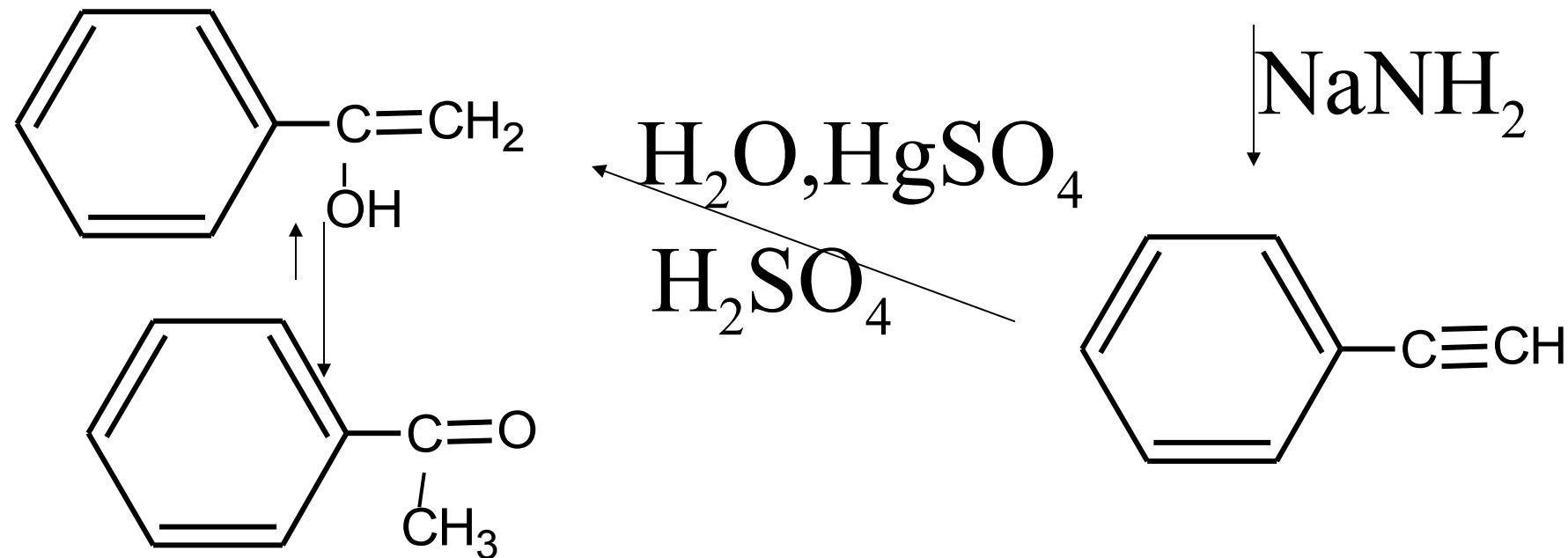
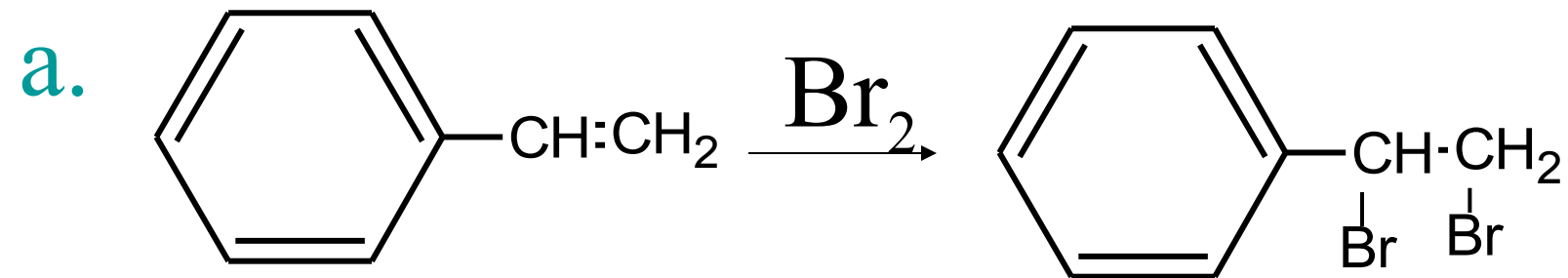
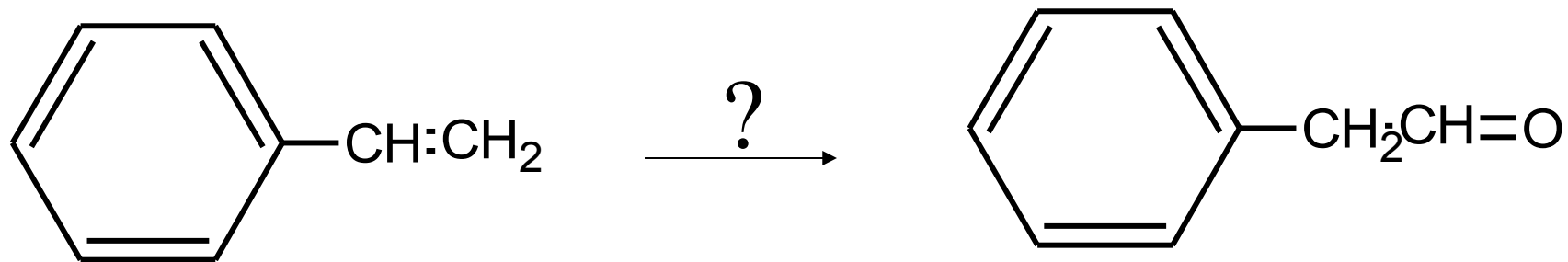
4. pu:

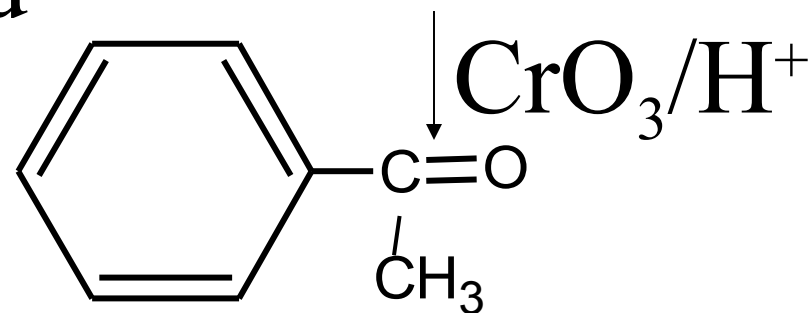
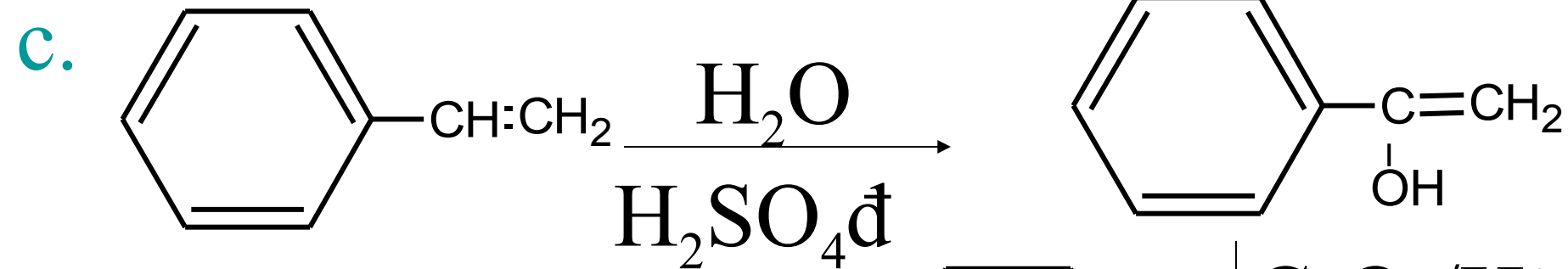
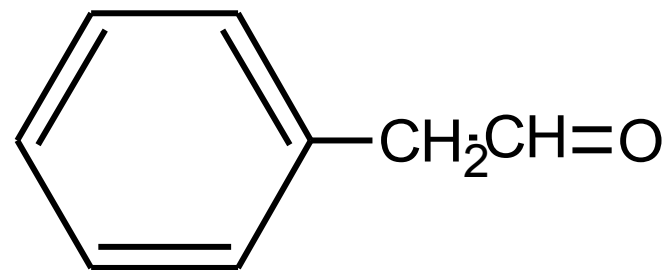
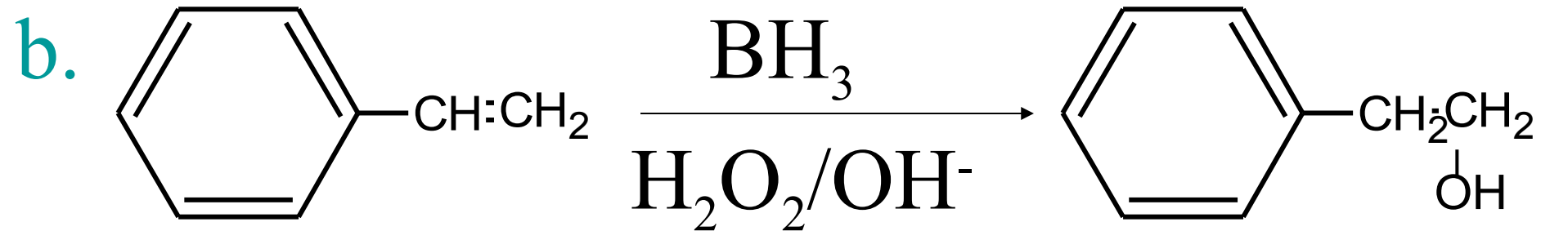
Acetyl clorua  $\xrightarrow[\text{BaSO}_4]{\text{H}_2/\text{Pd}}$  Acetaldehit là pu?



(a). Rosendmund

## 5. Quy trình đúng:

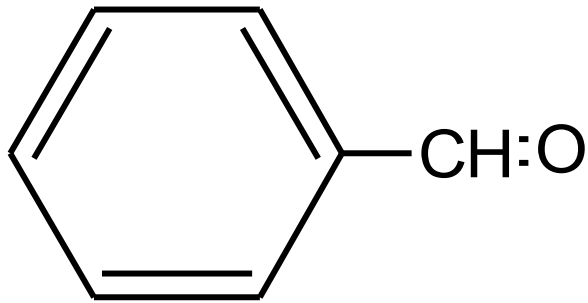




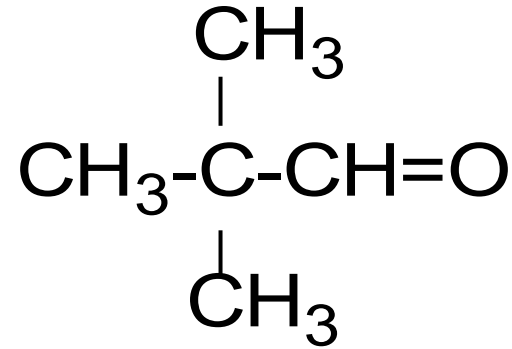
Câu (b).

## 6. Andehit nào cho hồ biến enol?

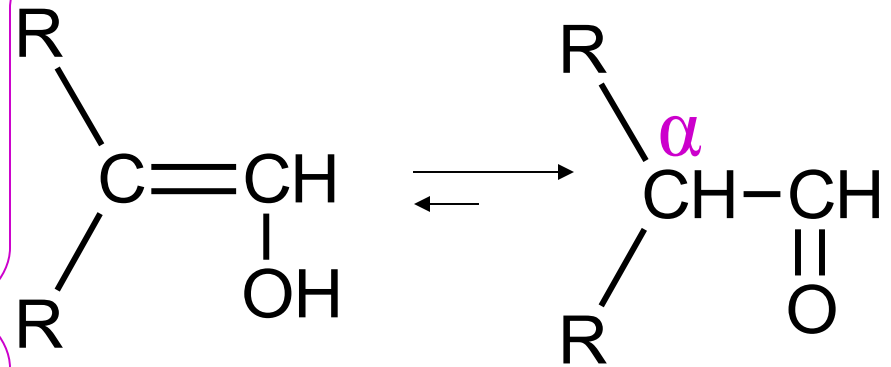
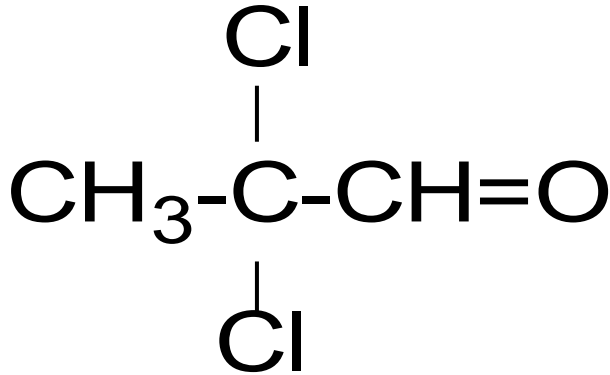
a. Benzaldehyt



b. 2,2-Dimetylpropanal



c. 2,2-Diclopropanal

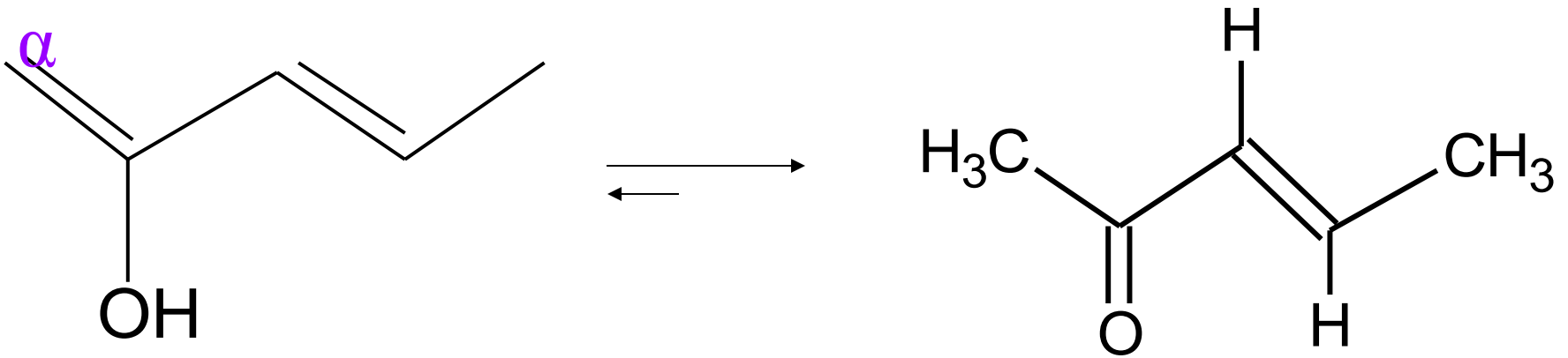


Chất nào có  $H_{\alpha}$  mới  
cho hồ biến enol

(a). Không có chất nào

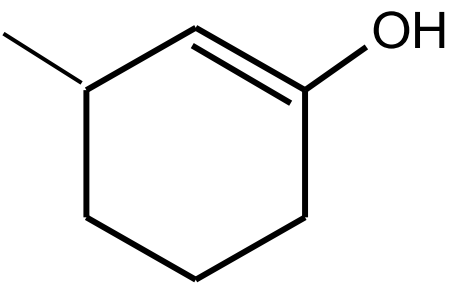
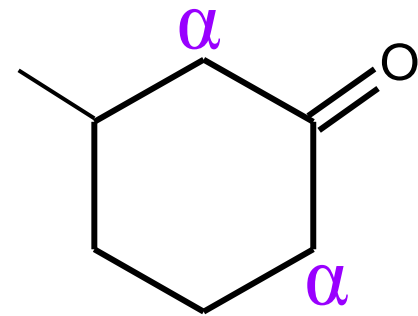


7. Dạng hồ biến enol dưới đây là của:

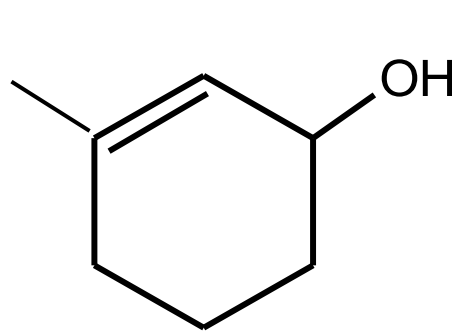


(b). Trans-3-penten-2-on

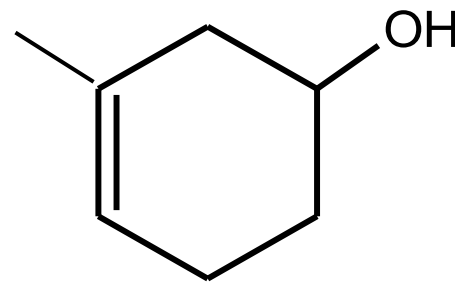
8. Chất nào là dạng hồ biến của 3-metylciclohexanon?



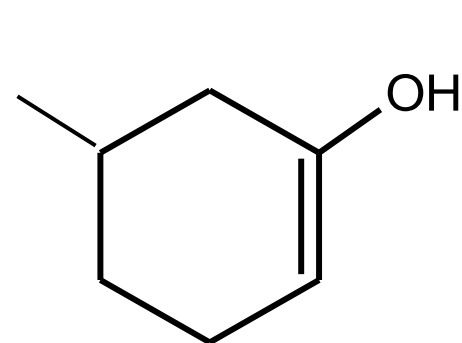
(I)



(II)



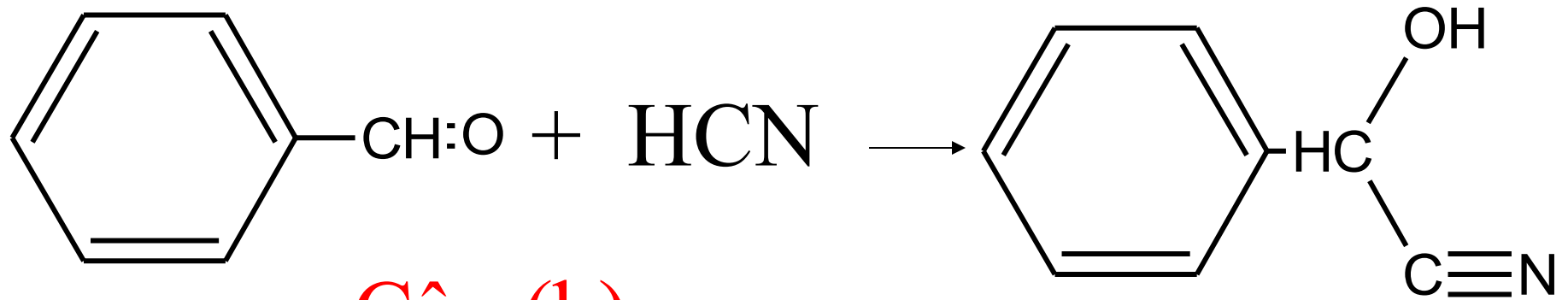
(III)



(IV)

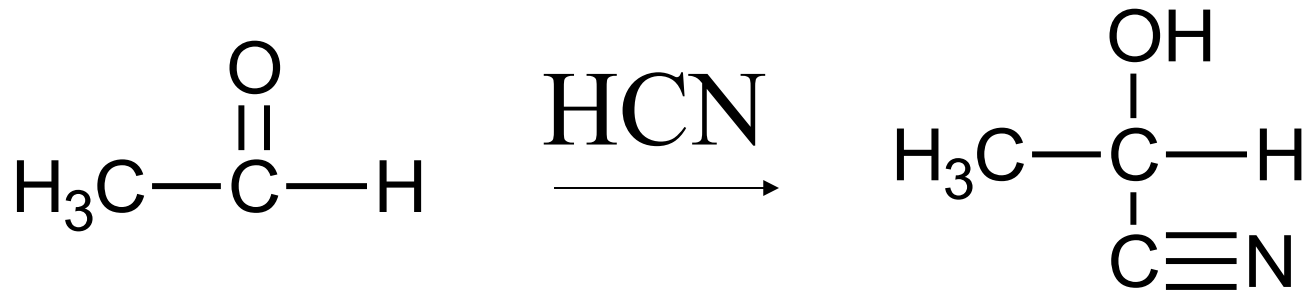
(b). (I) và (IV)

9. Sp của pư giữa benzaldehyt và HCN là:



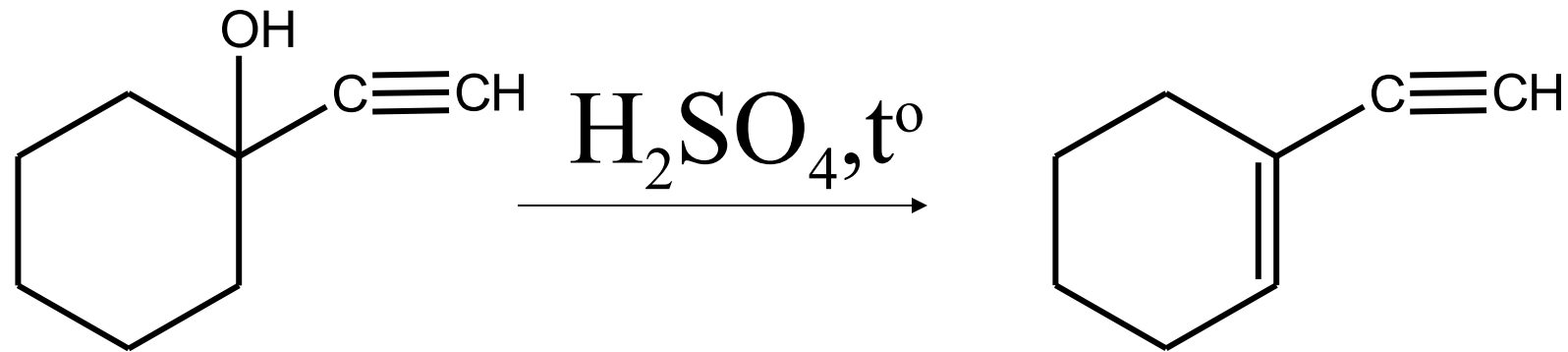
Câu (b)

10. Sp của pư:



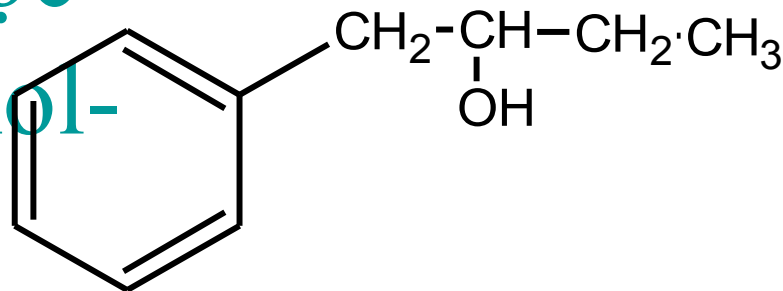
Câu (c)

# 11. Sp của pư:



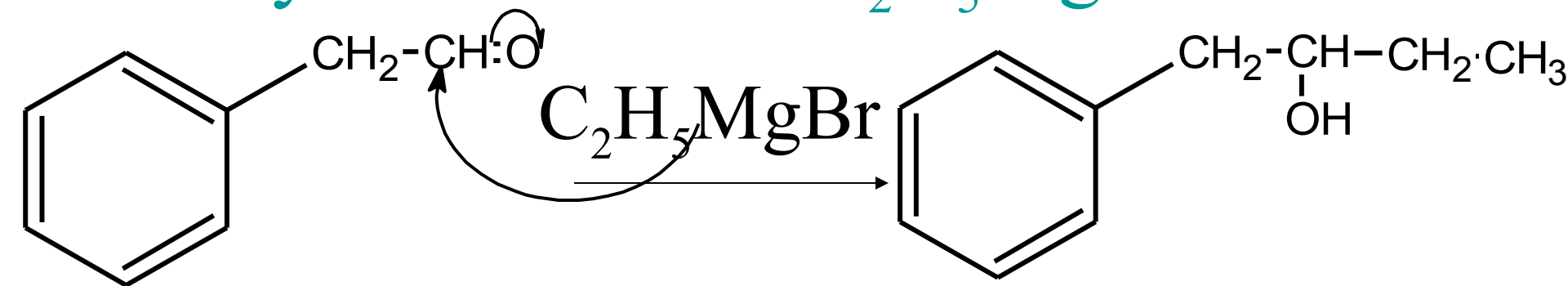
Câu (d)

# 12. Pư không điều chế được 1-phenylbutanol-

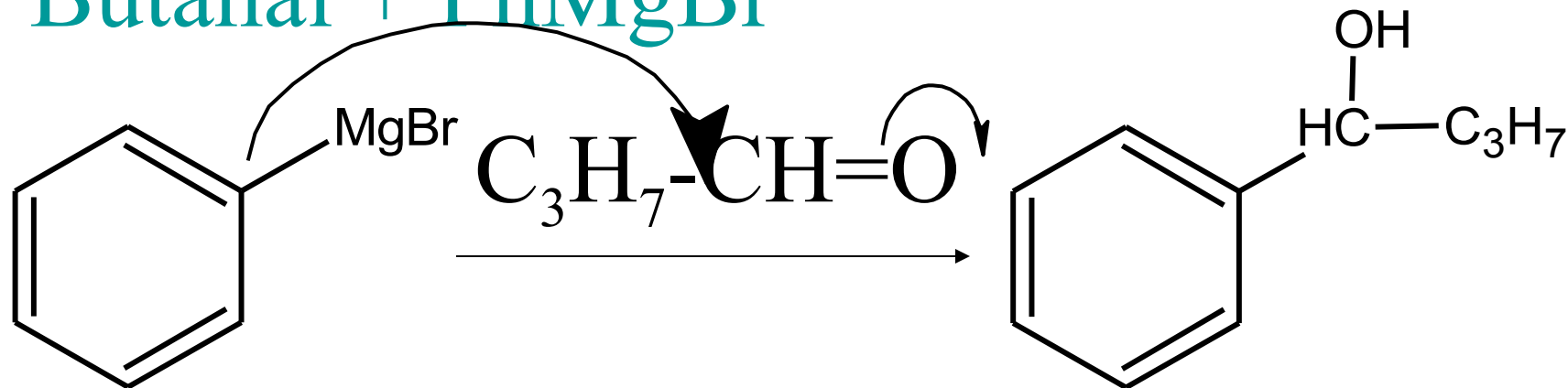


2

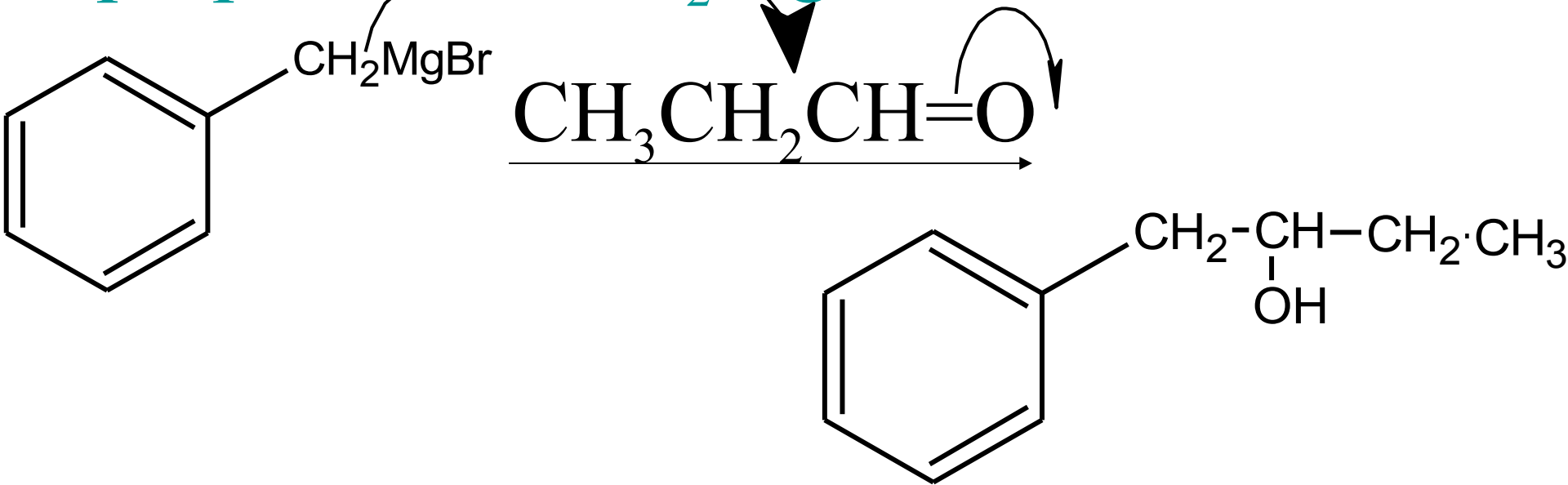
## a. Phenylacetaldehyt + $\text{C}_2\text{H}_5\text{MgBr}$



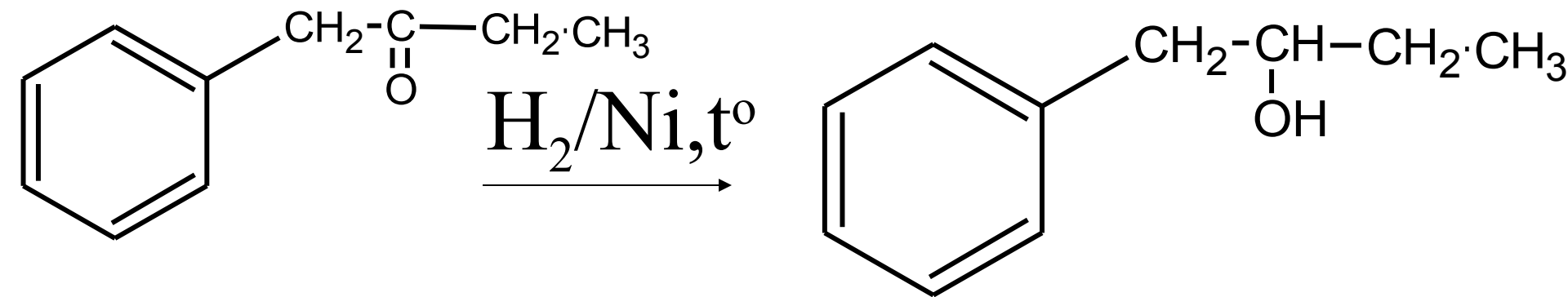
## b. Butanal + $\text{PhMgBr}$



c. propanal + PhCH<sub>2</sub>MgBr

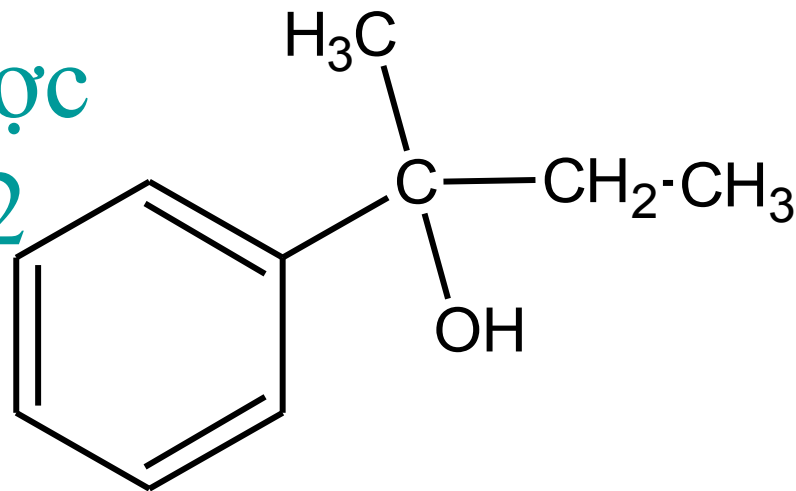


d. 1-phenylbutan-2-one + H<sub>2</sub>/Ni, t<sup>o</sup>

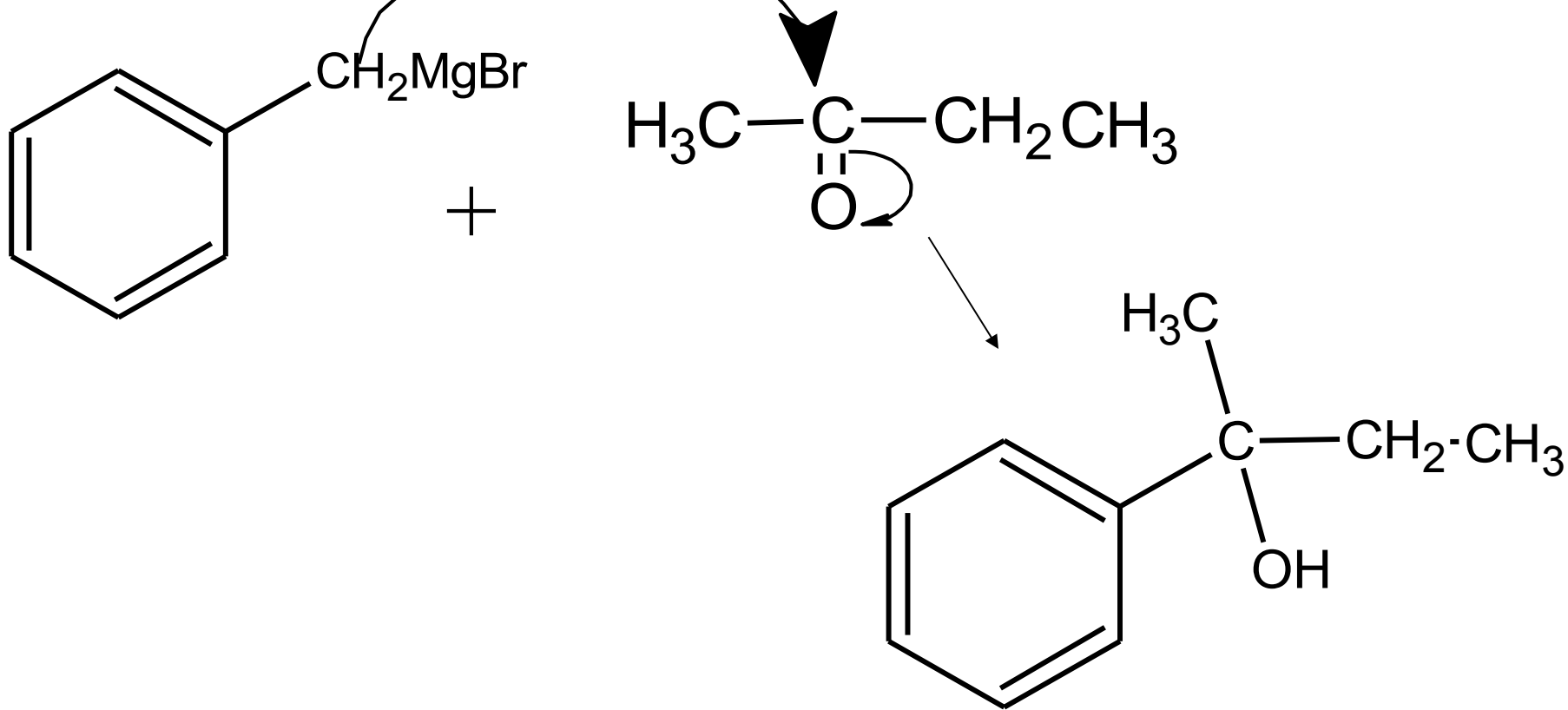


Câu (b)

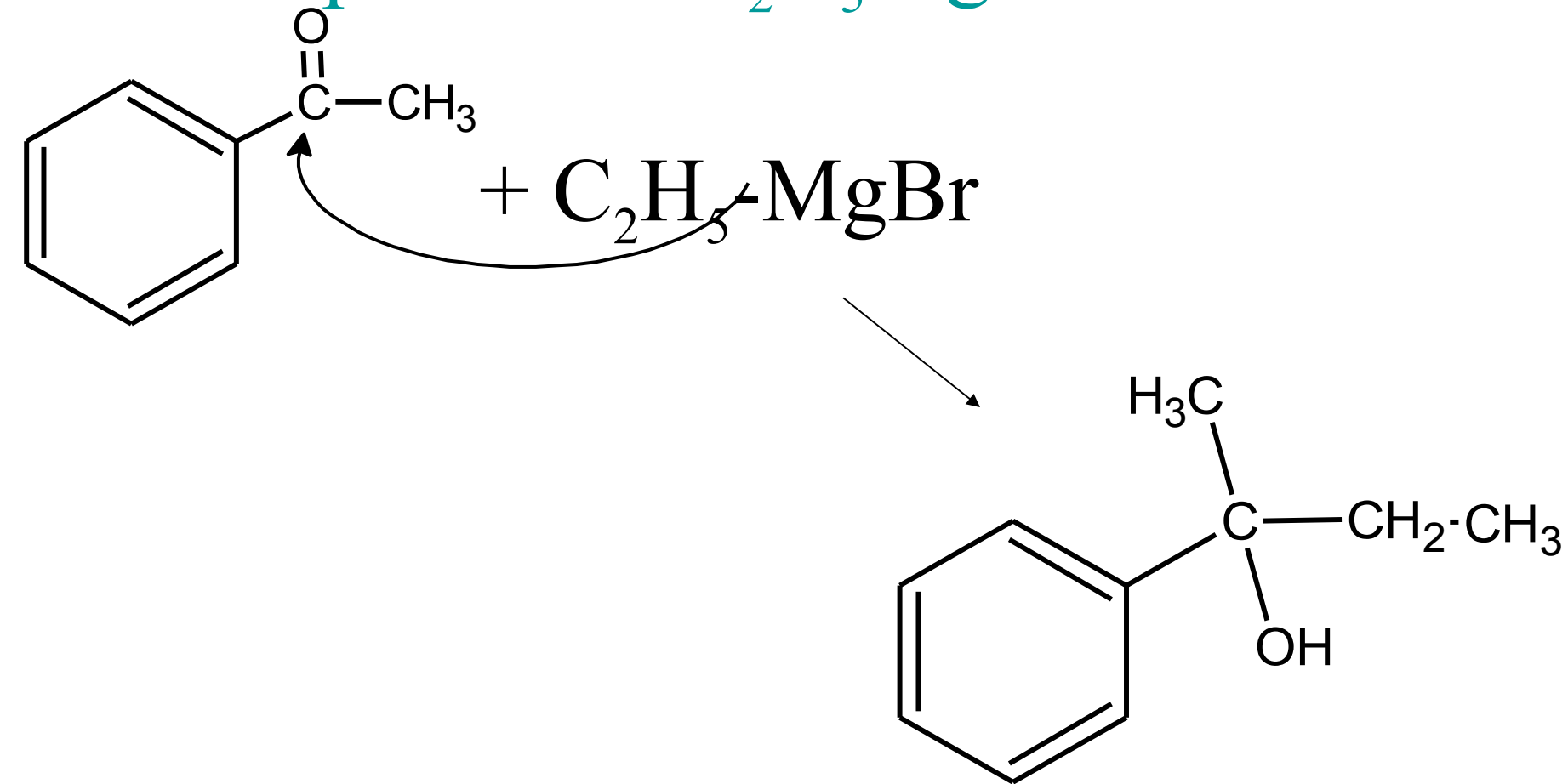
13. Pư không điều chế được  
2-phenylbutanol-2



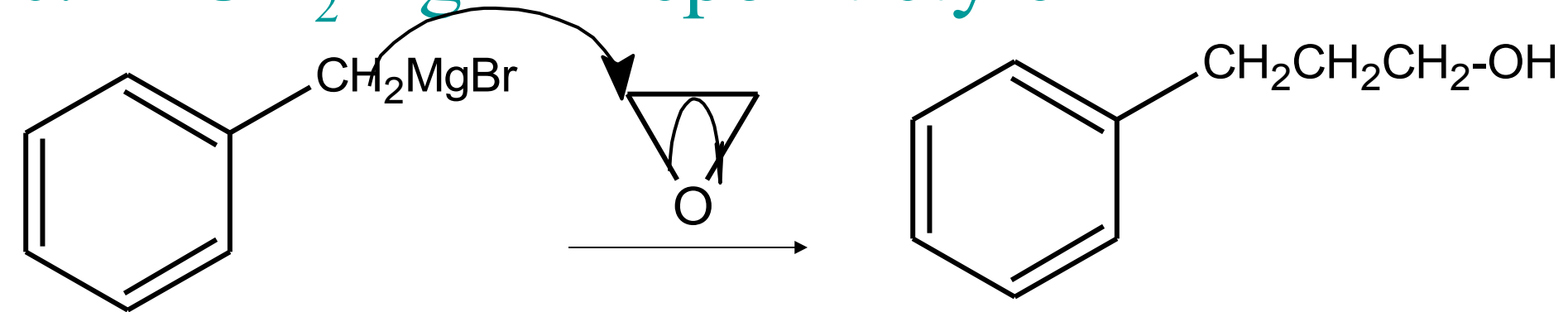
a. Butanon + PhMgBr



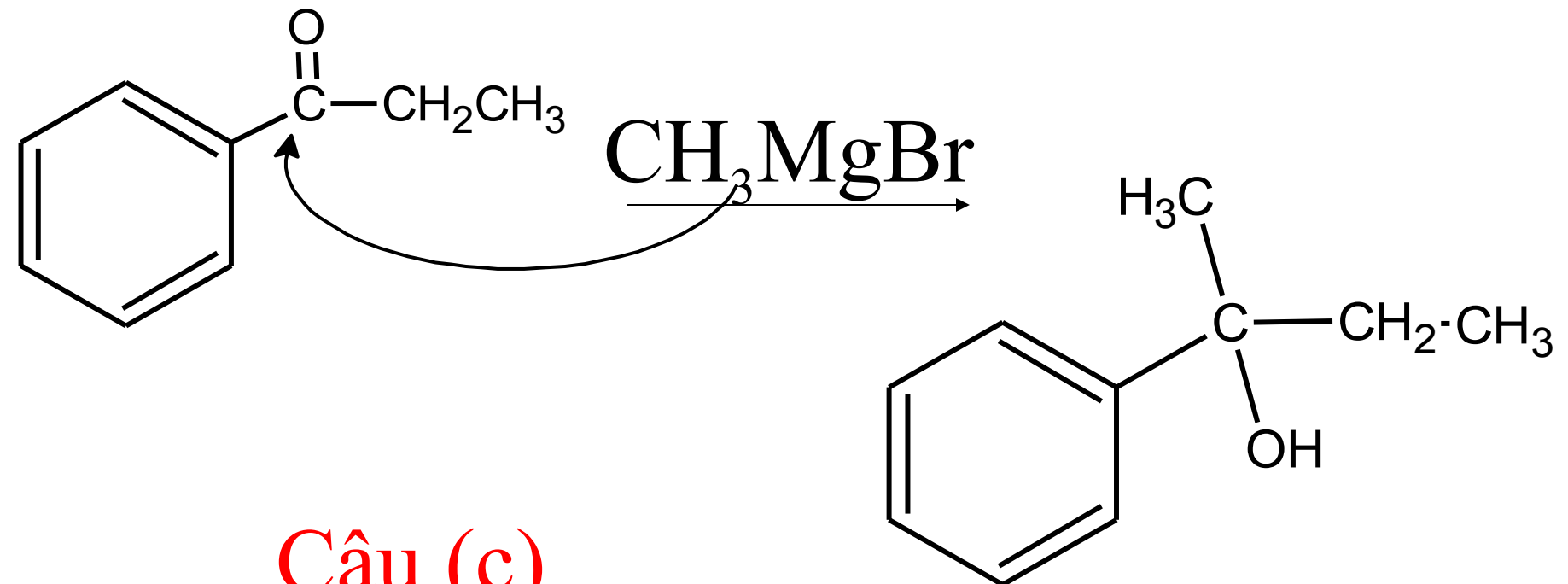
## b. Acetophenon + $C_2H_5MgBr$



c.  $\text{PhCH}_2\text{MgBr} + \text{epoxit etylen}$



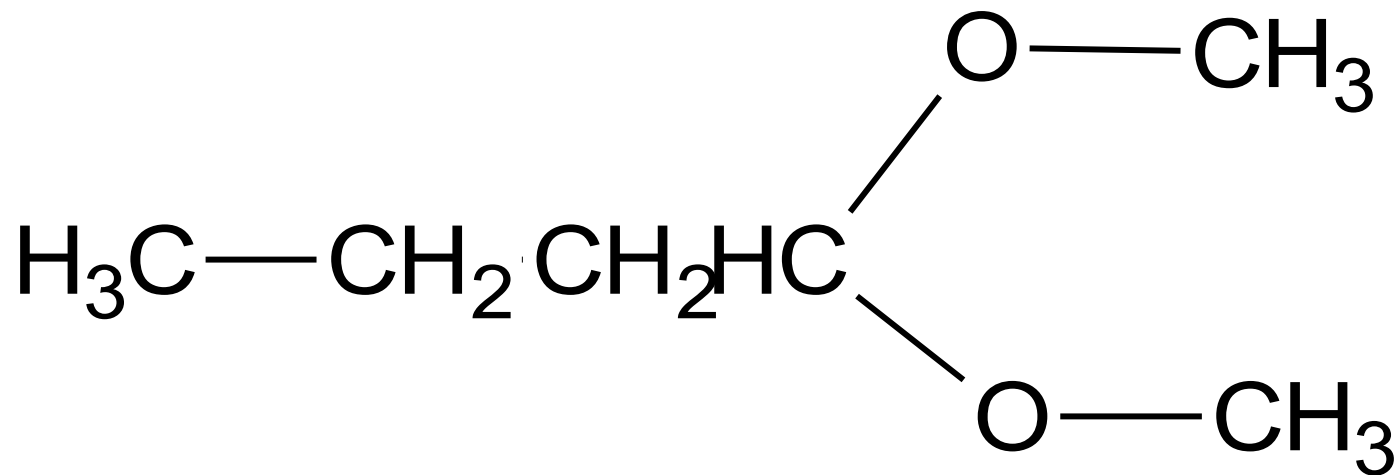
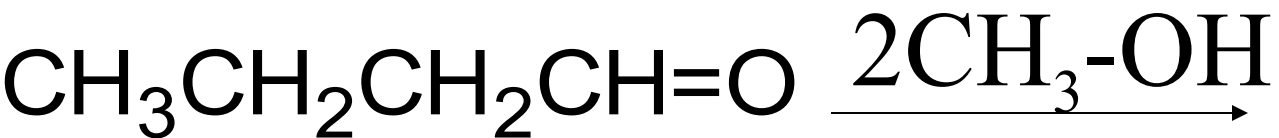
d. Etylphenylketon +  $\text{CH}_3\text{MgBr}$



Câu (c)

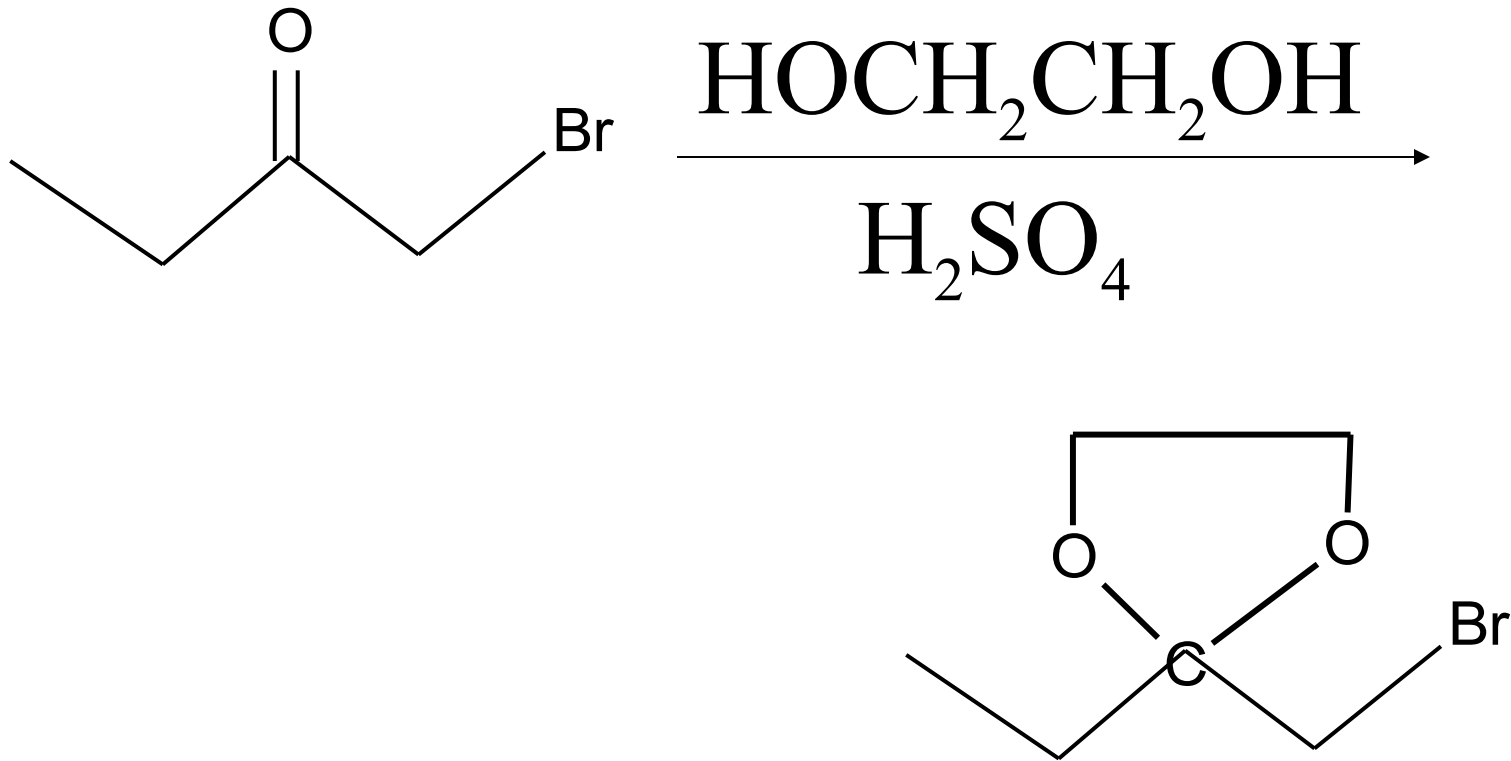


14. Butanal + metanol(dur)/H<sub>2</sub>SO<sub>4</sub>đđ → ?



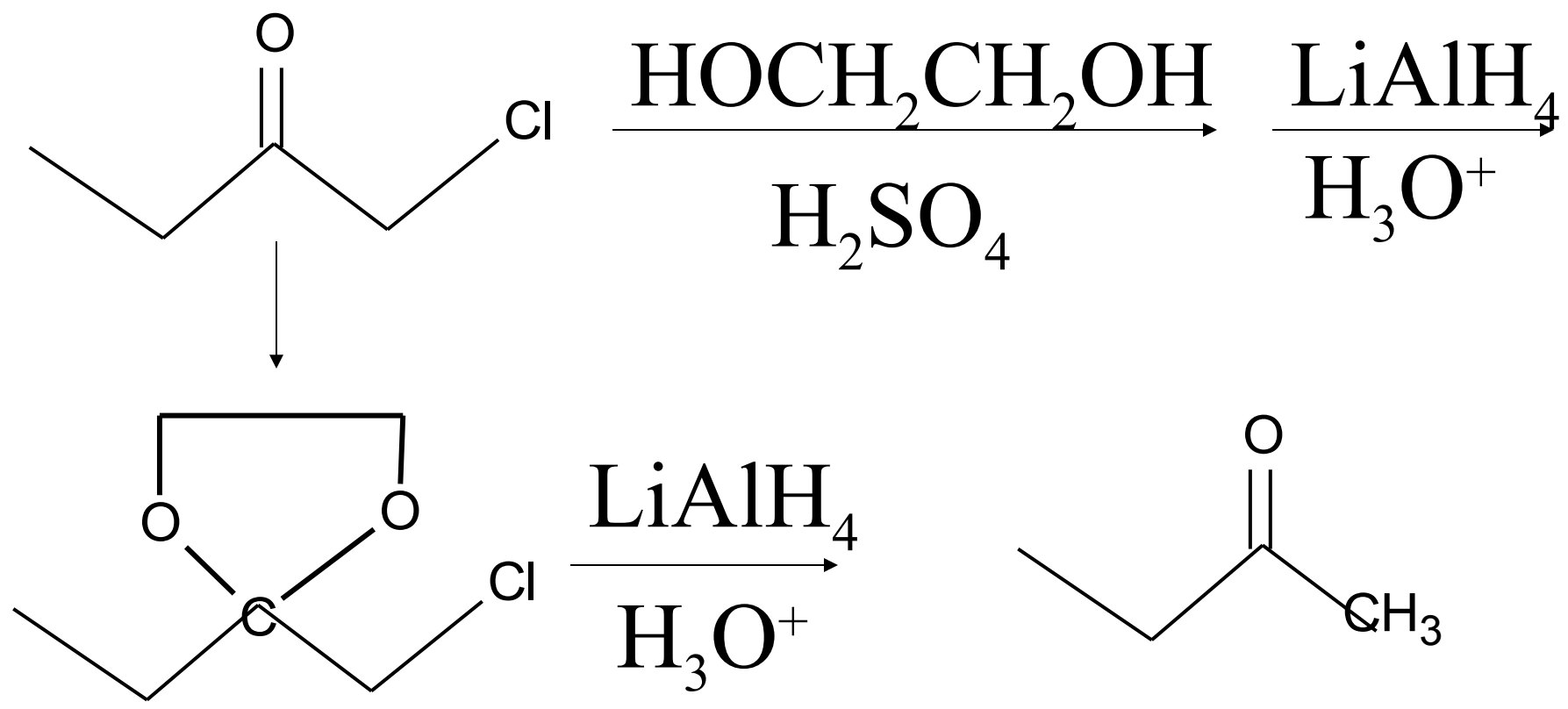
(d).  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OCH}_3)_2$

# 15. Sp của pu:



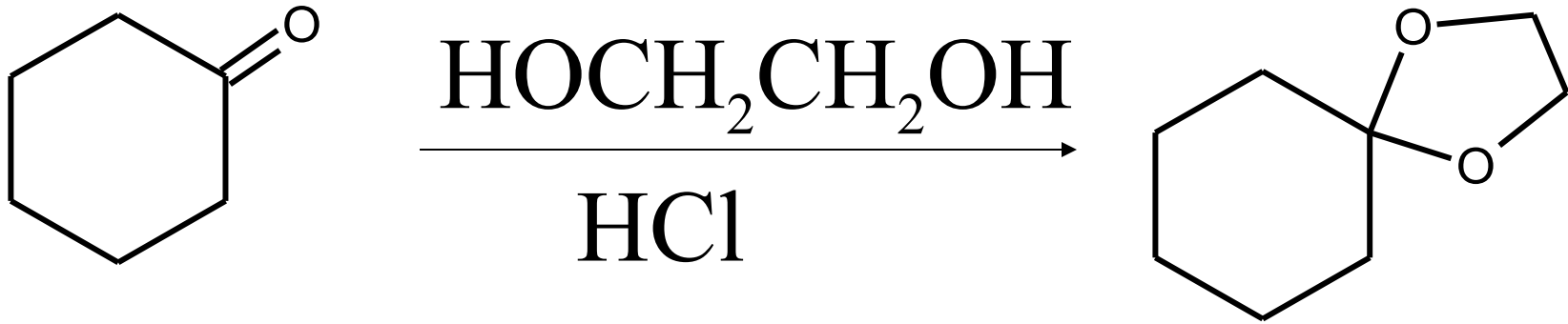
Câu (a)

# 16. Sp của chuỗi pứ:



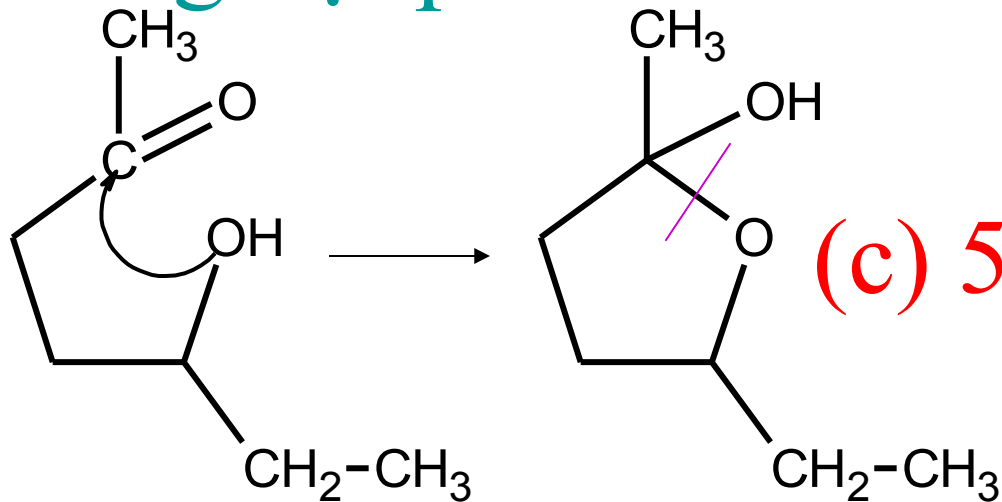
Câu (d)

## 17. Sp của pu:



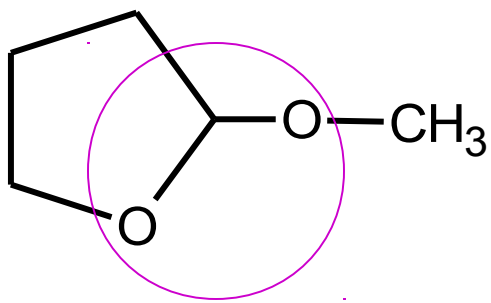
Câu (b)

18. Chất dưới đây là sp hemiacetal đóng vòng nội phân tử của:

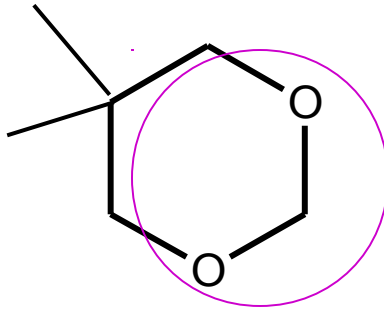


(c) 5-hydroxyheptanon-2

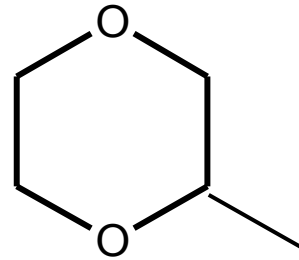
# 19. Chất nào dưới đây là 1 acetal



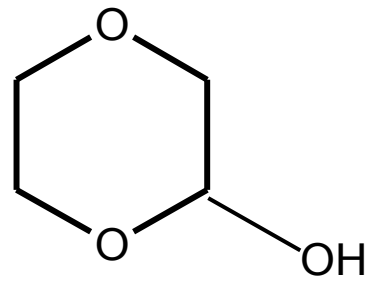
(I)



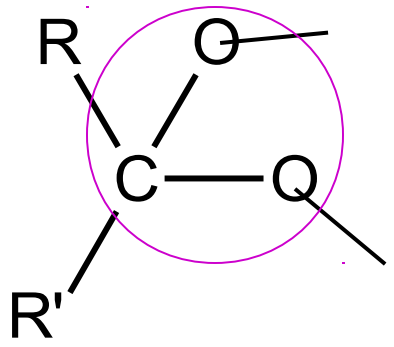
(II)



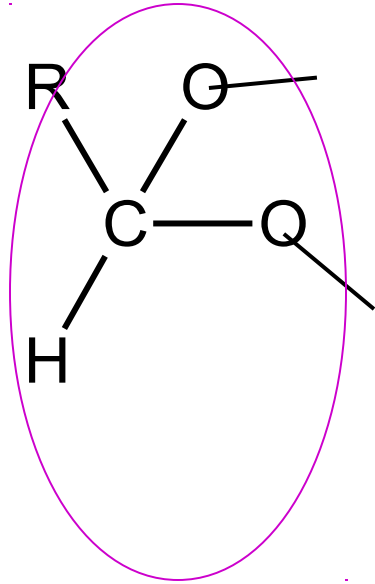
(III)



(IV)



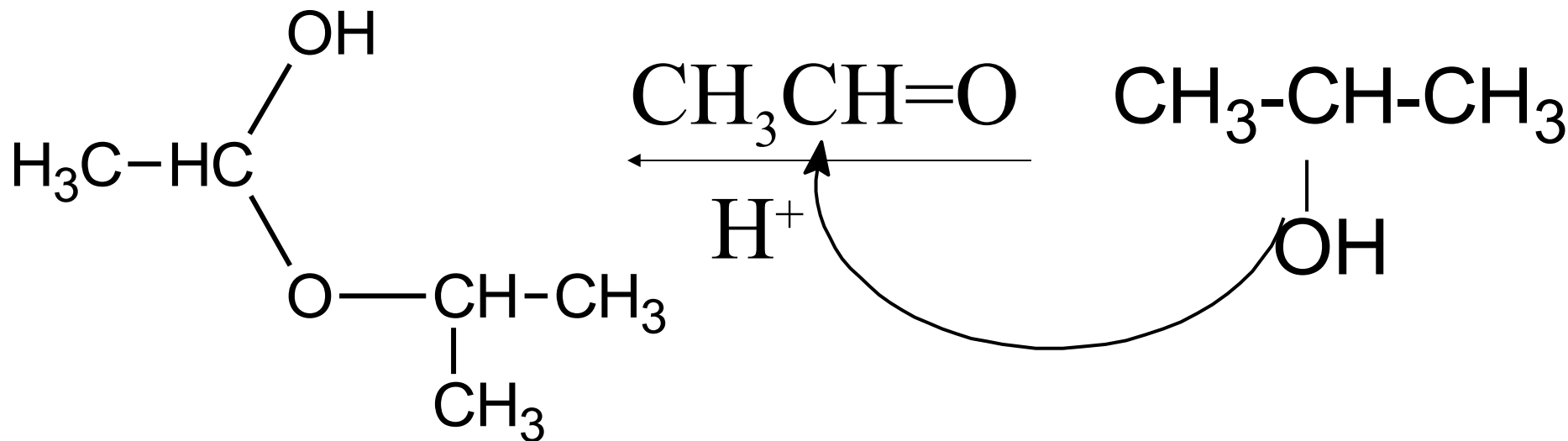
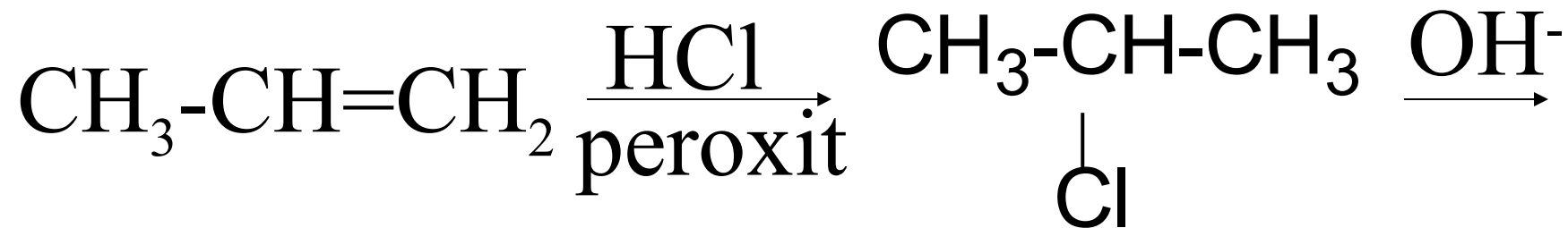
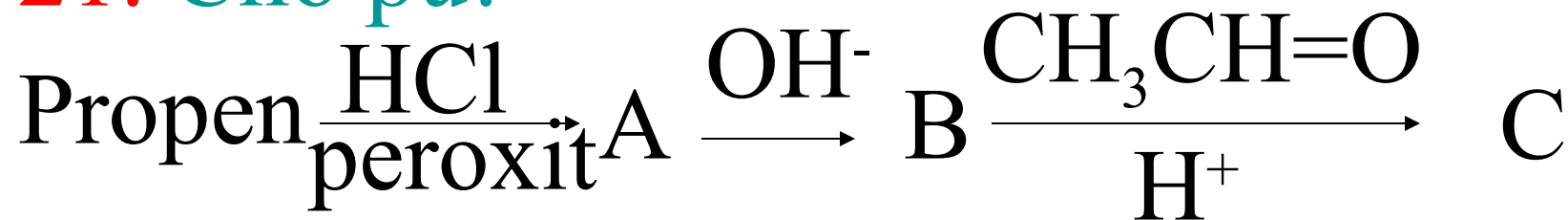
ketal



axetal

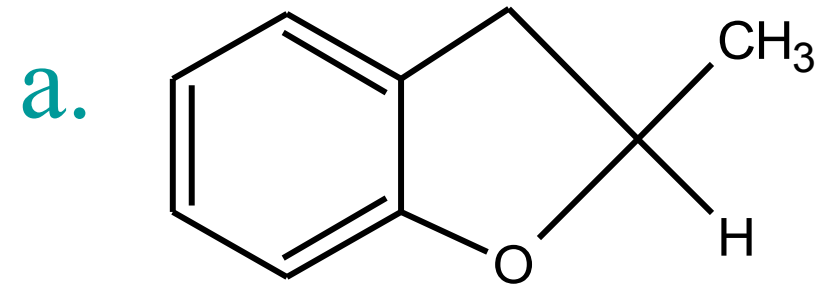
a. I và II

## 21. Cho pu:

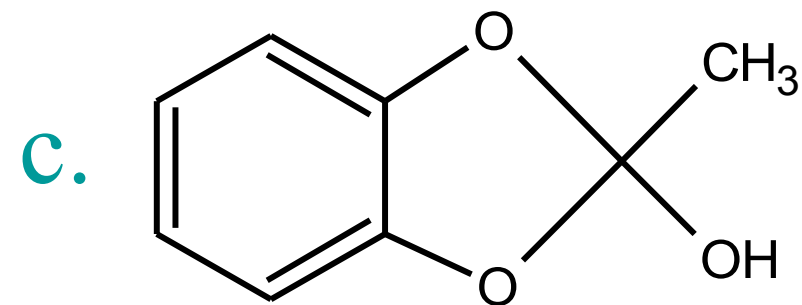
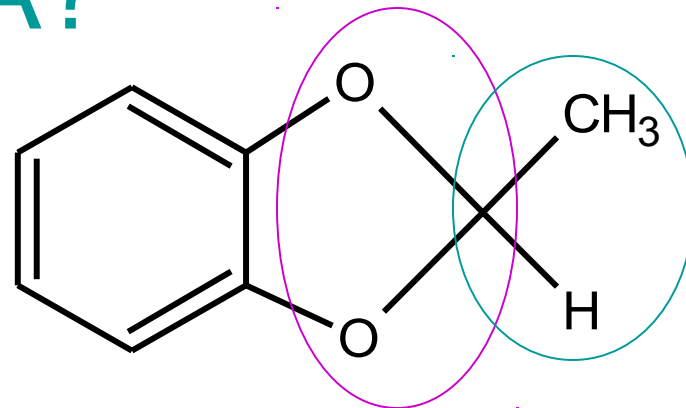


Câu (c)

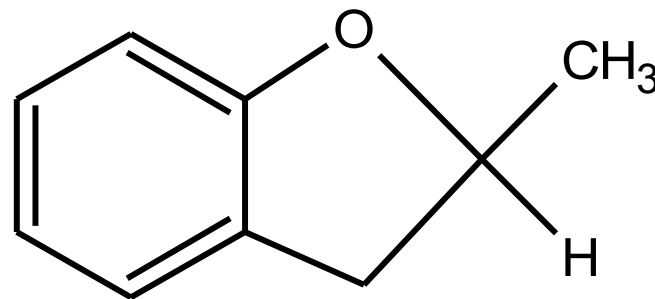
22.  $A + \text{HCl} \rightarrow \text{etanal: A?}$



b.

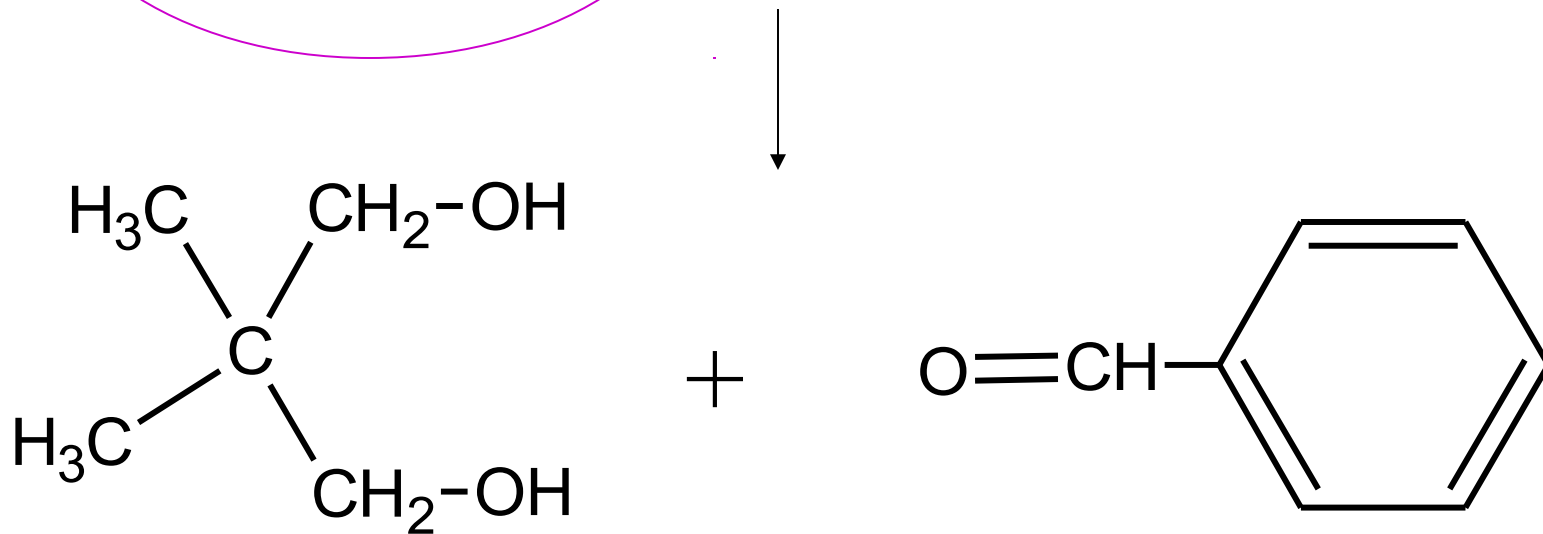
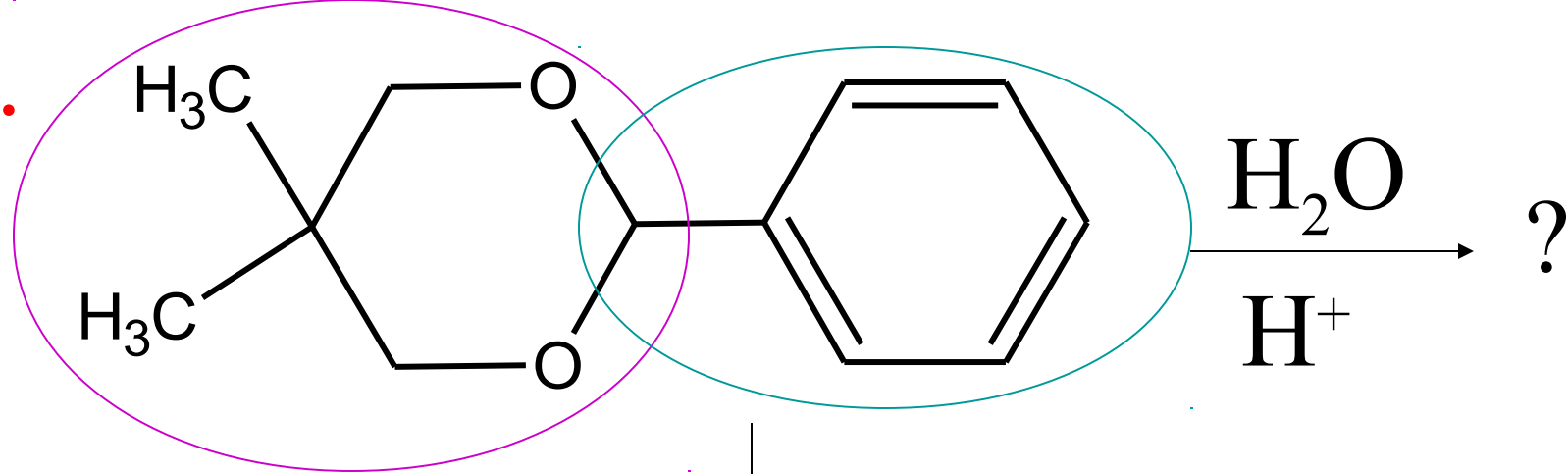


d.



Câu (b)

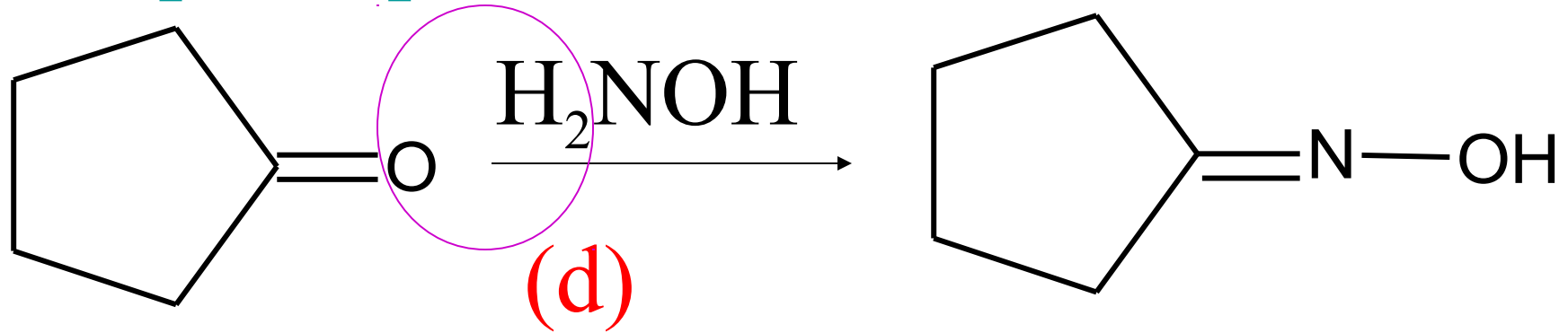
23.



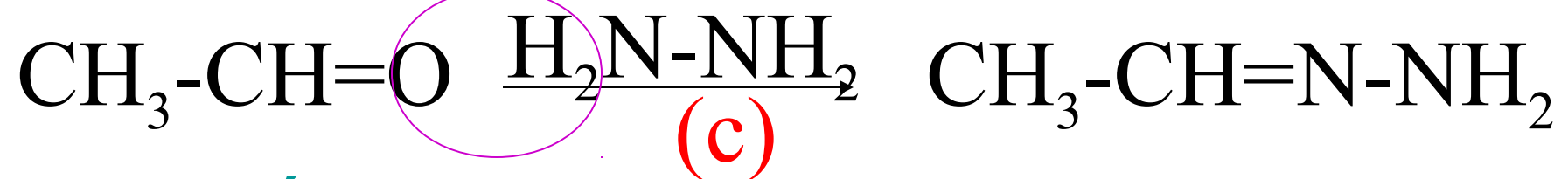
(b). Benzaldehyd và  
2,2-Dimetylpropadiol-1,3



24. Sp của pu:

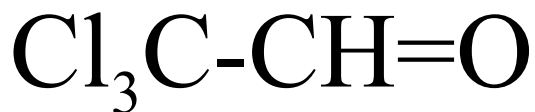


25. Acetaldehit + Hidrazin  $\rightarrow$  ?



26. Chất cho pu Andol hóa?

a. Tricloaxetandehit    b. 2,2-Dimetylpropanal

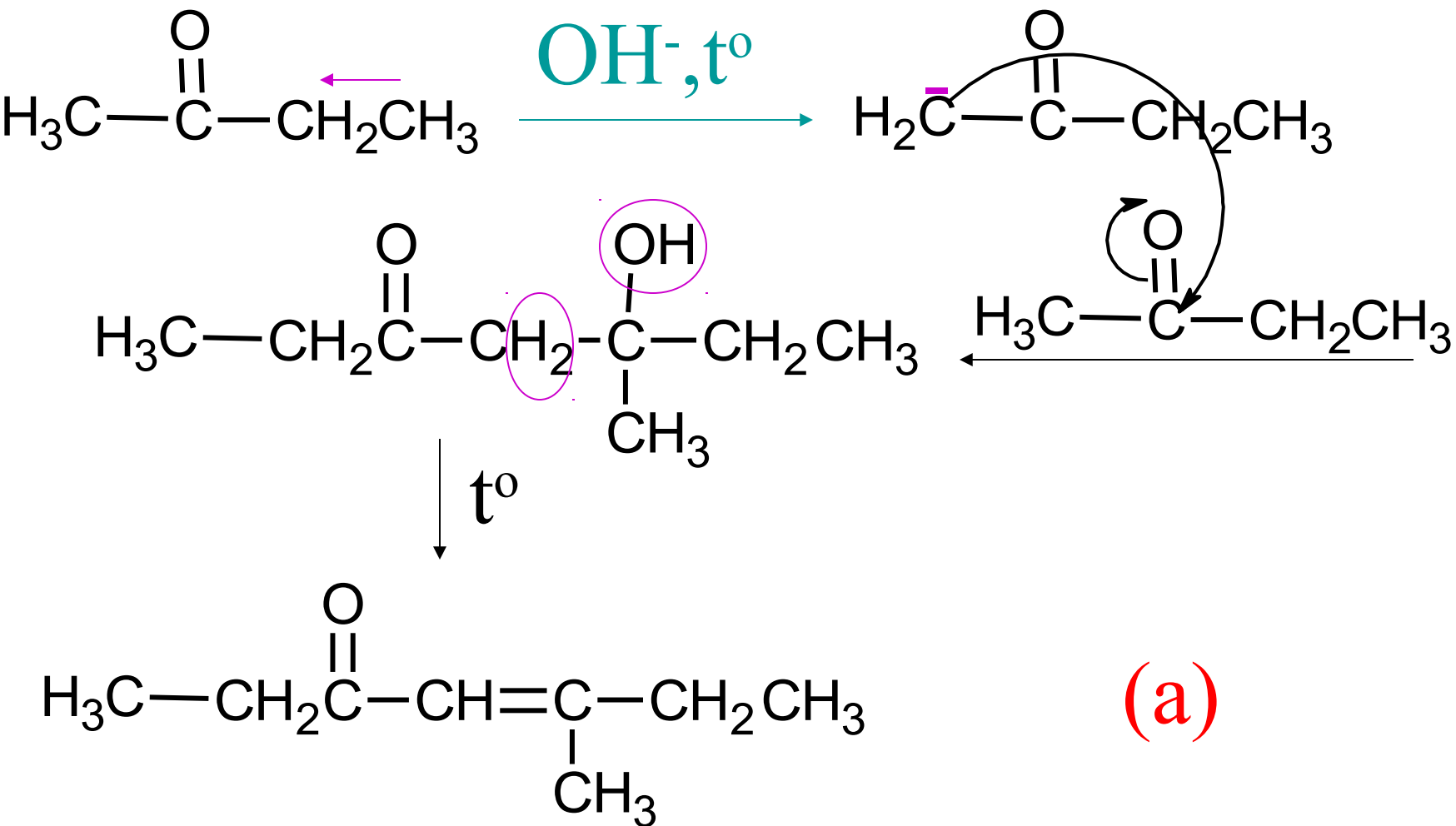


c. Phenylaxetandehit    d. Benzandehit

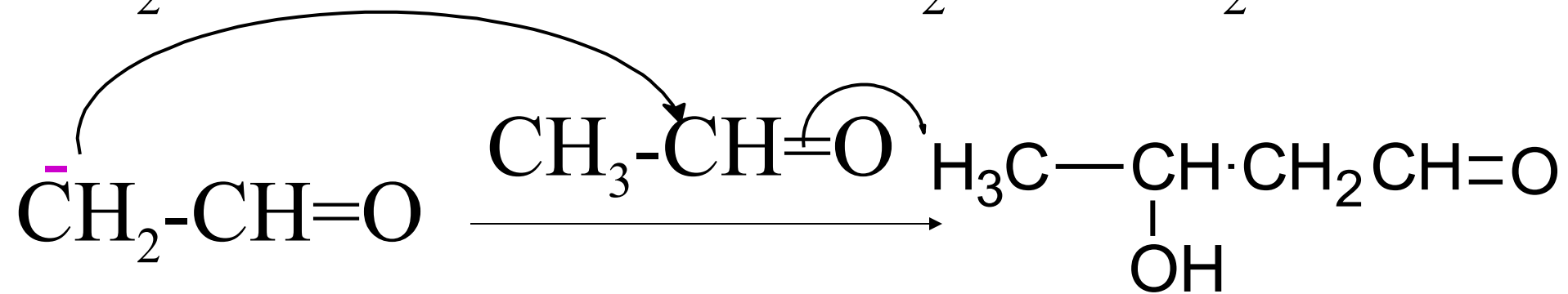
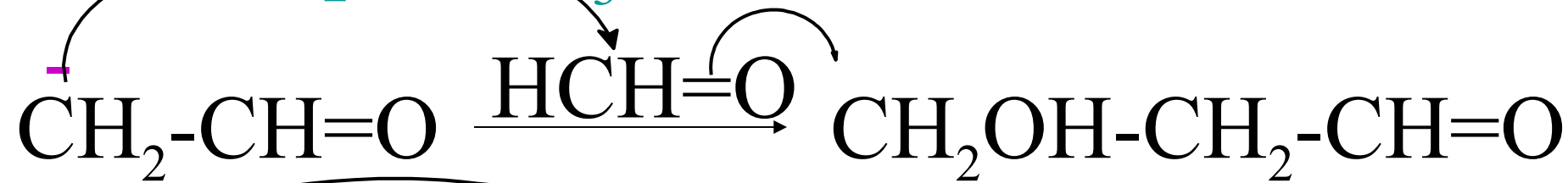


(c)

## 27. Sp chính của pư:

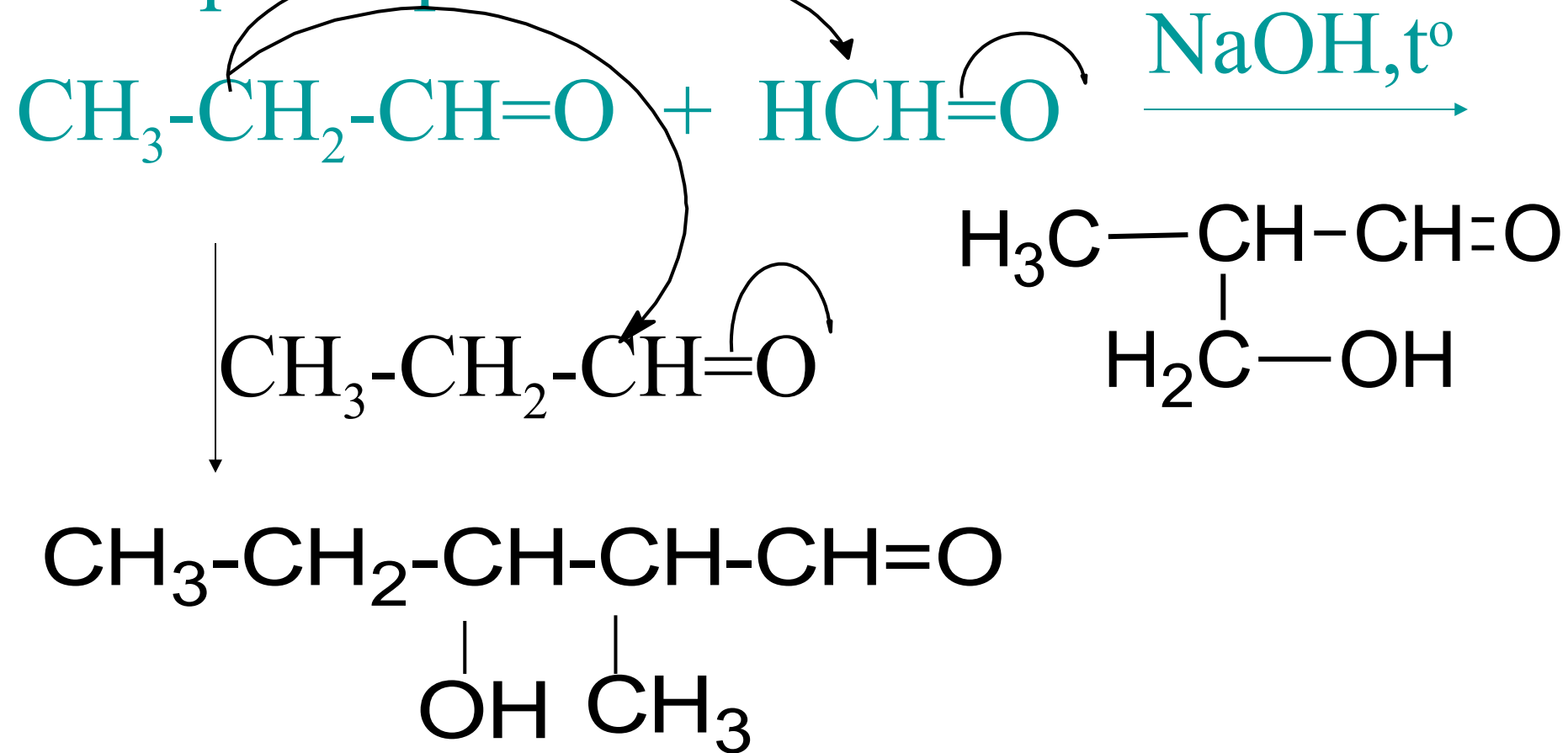


28. Cho pu:  $\text{CH}_3\text{-CH=O} + \text{HCH=O} \xrightarrow{\text{OH}^-}$  ?



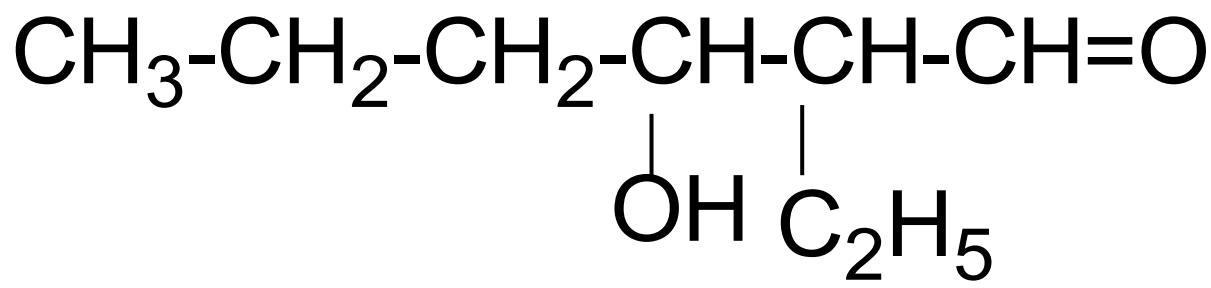
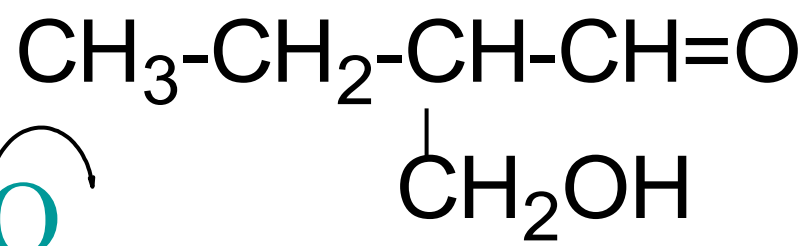
(d)

29. Sp của pu:



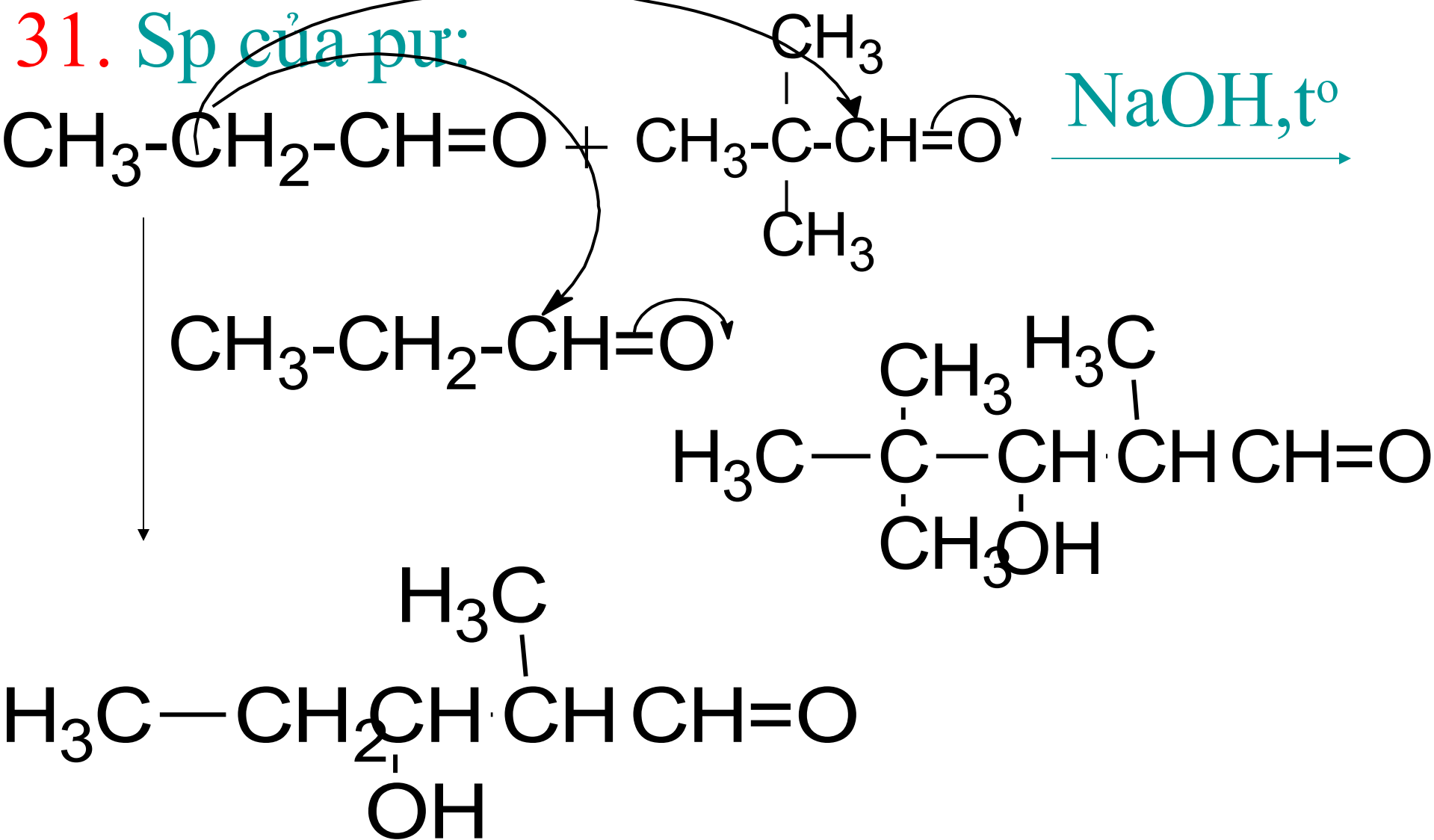
(d)

30. Sp của pu:



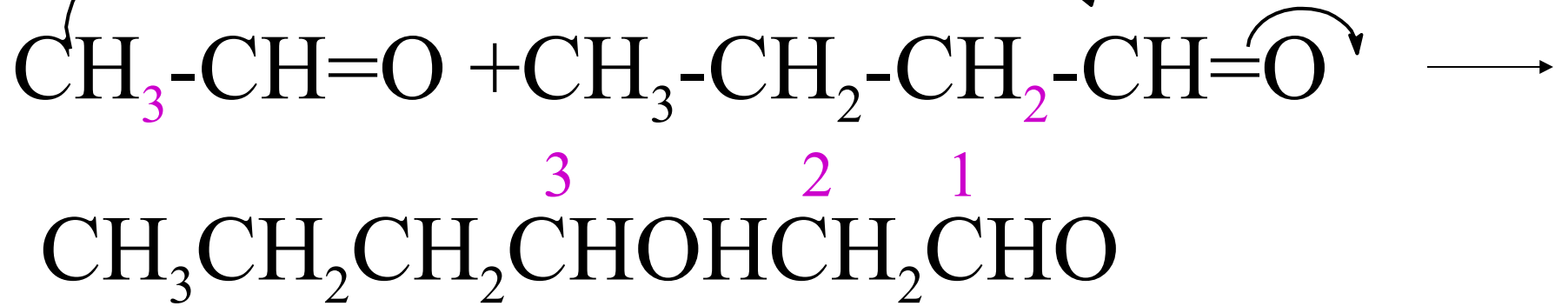
(d)

31. Sp của pu:



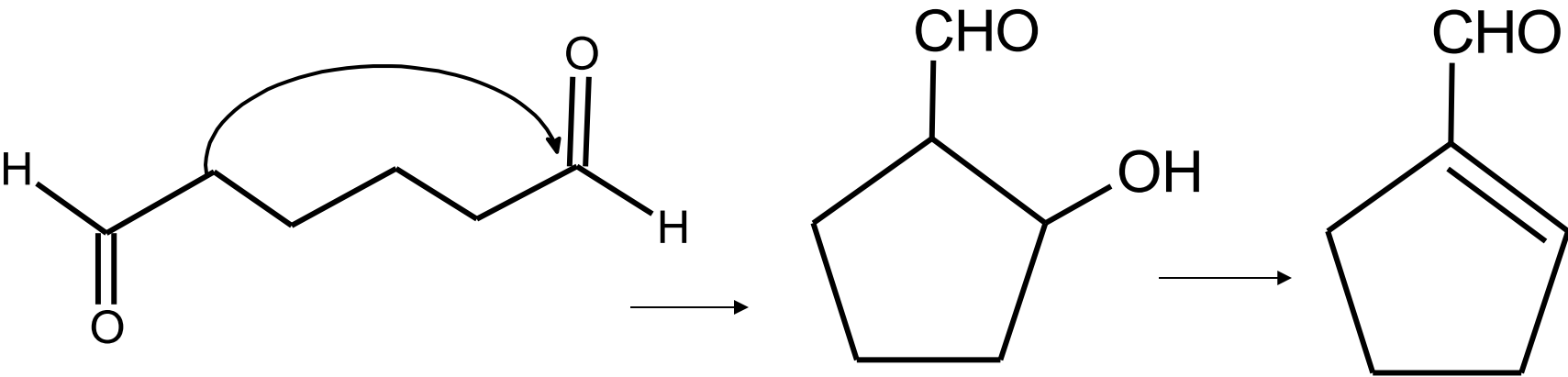
(d)

32. Sp chính pư chéo: Axetandehit + butanal

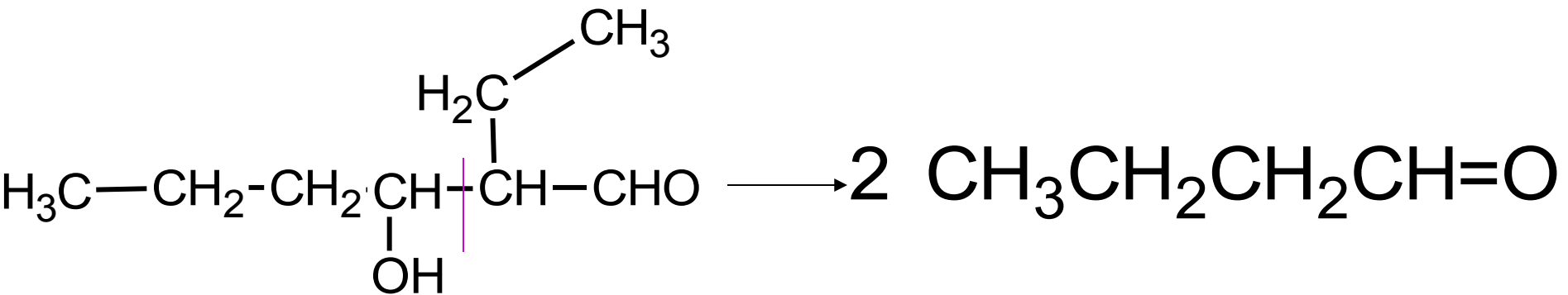


(d) 3-hidroxihexanal

33. Andol hóa nội phân tử, khử nước:



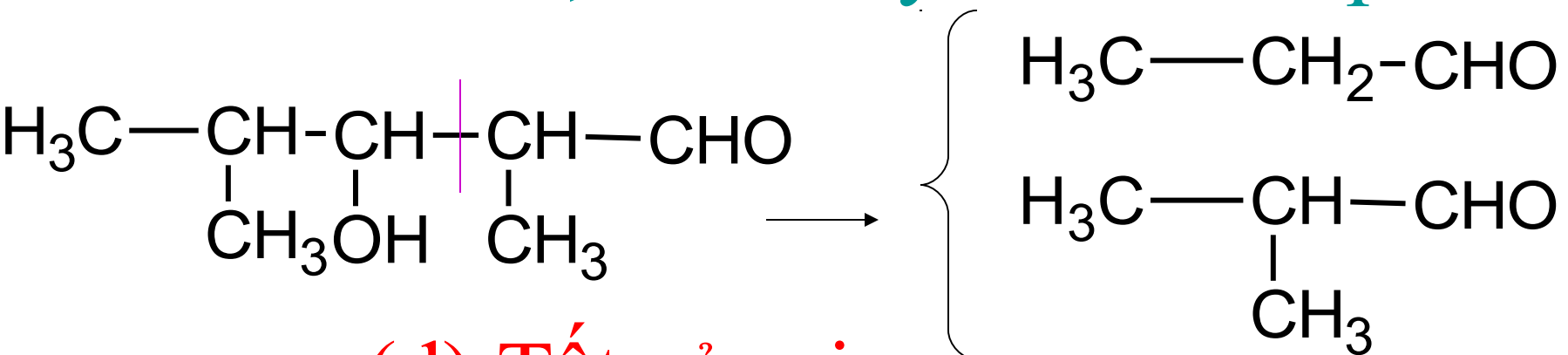
34. X andol hóa  $\rightarrow$  2-Etyl-3-hidroxihexanal



(a) Butyrandehit

35. X? Andol hóa  $\rightarrow$

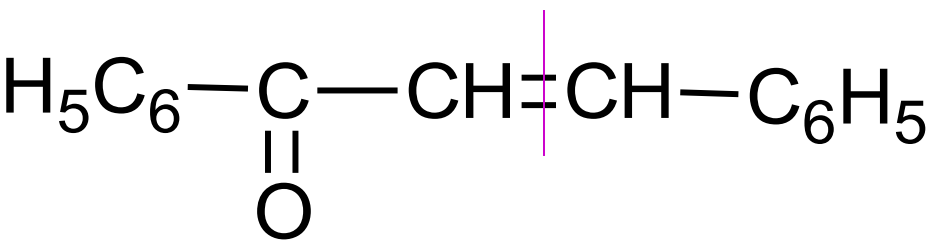
2,4-Dimetyl-3-hidroxiipentanal



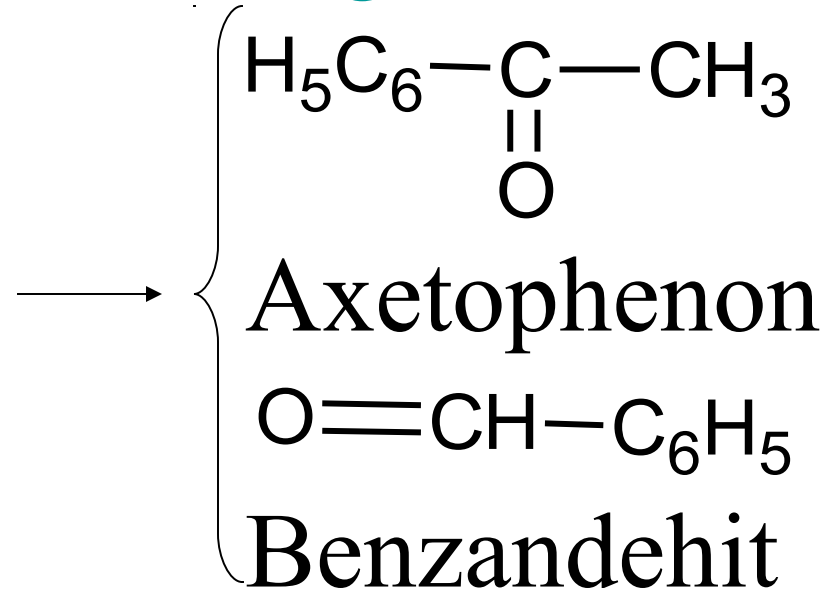
(d) Tất cả sai



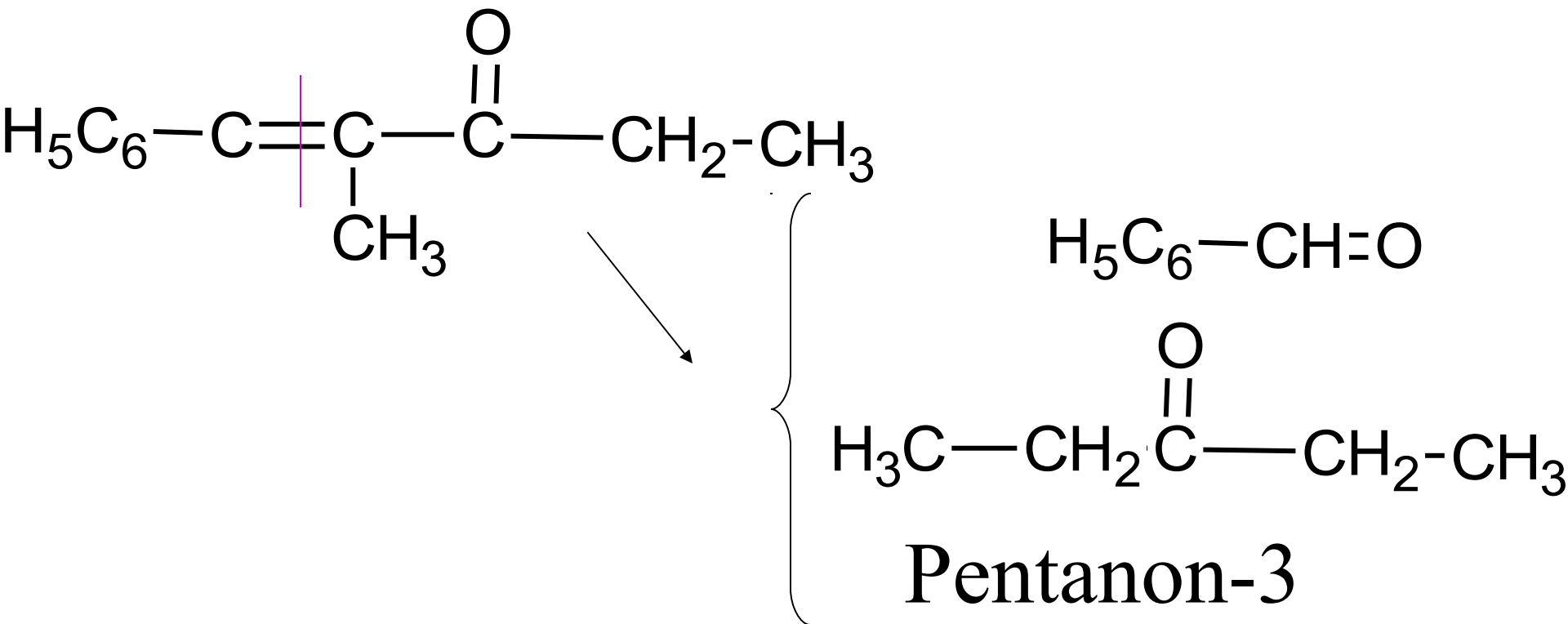
36. Để điều chế 1,3-Diphenyl-2-propenon từ pư ngưng tụ andol phải dùng:



(c)

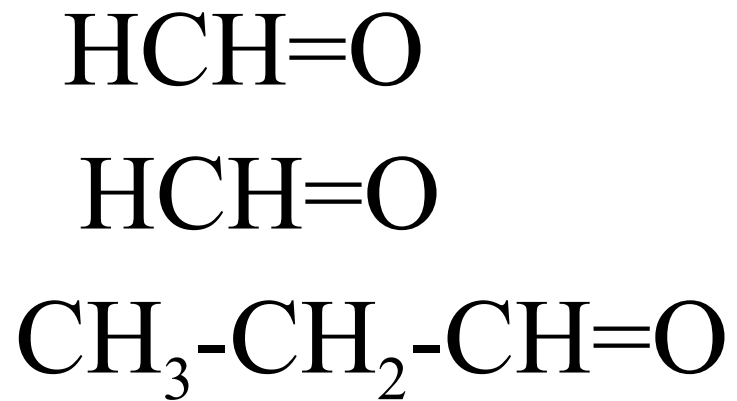
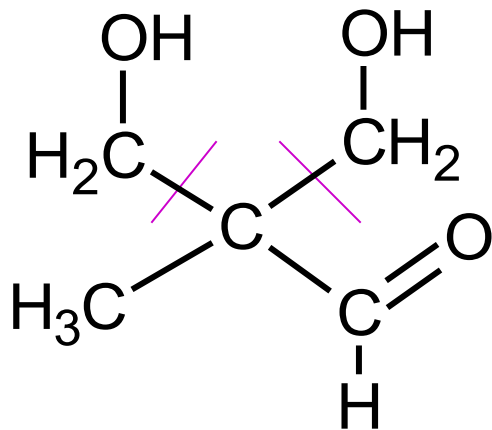
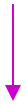
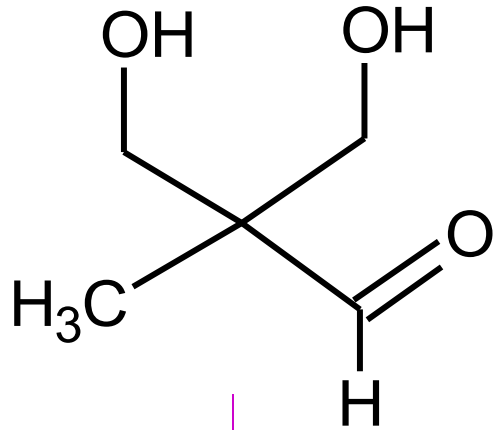


37.



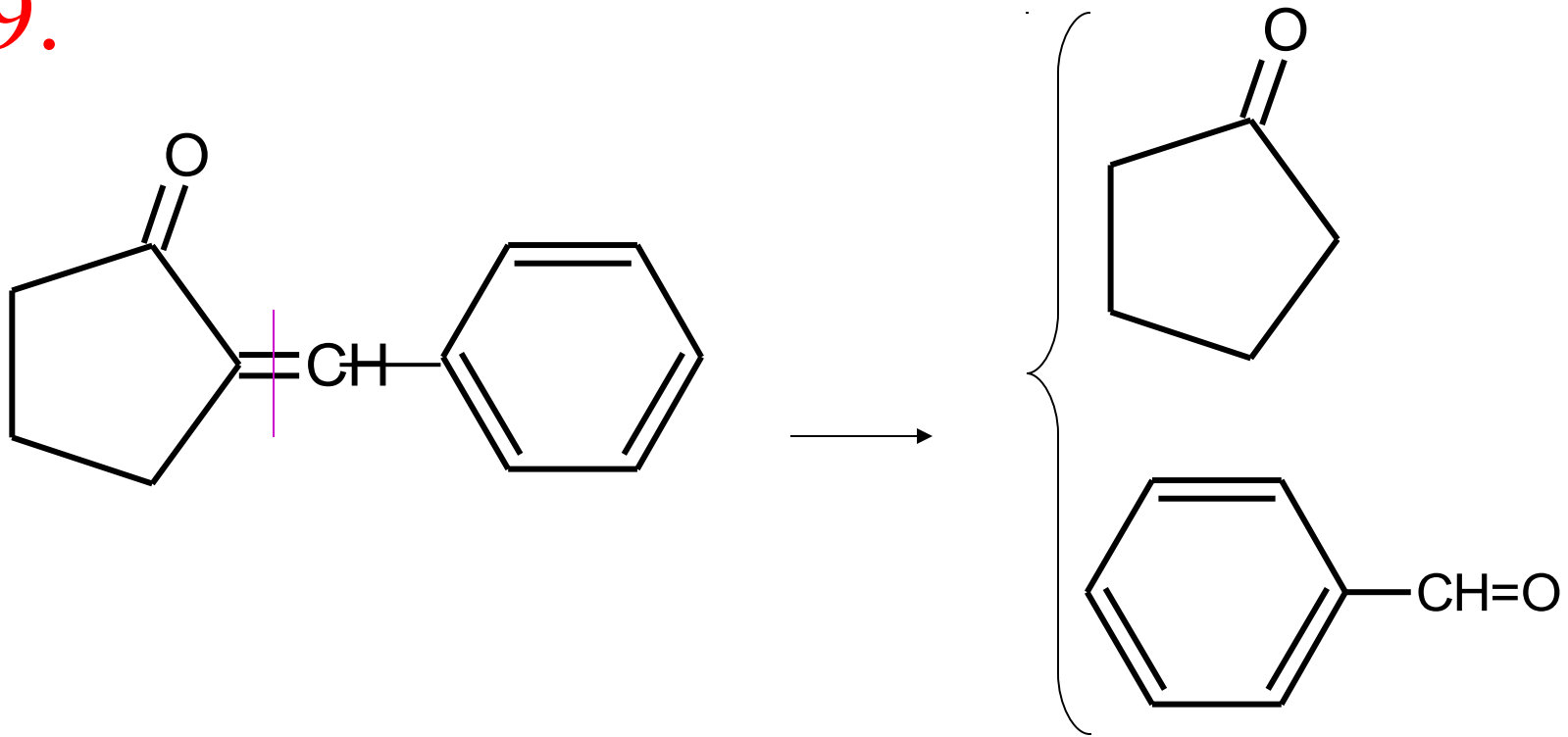
(a)

38.



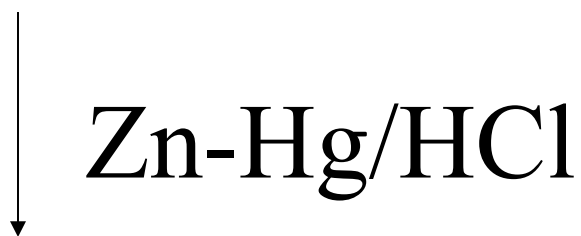
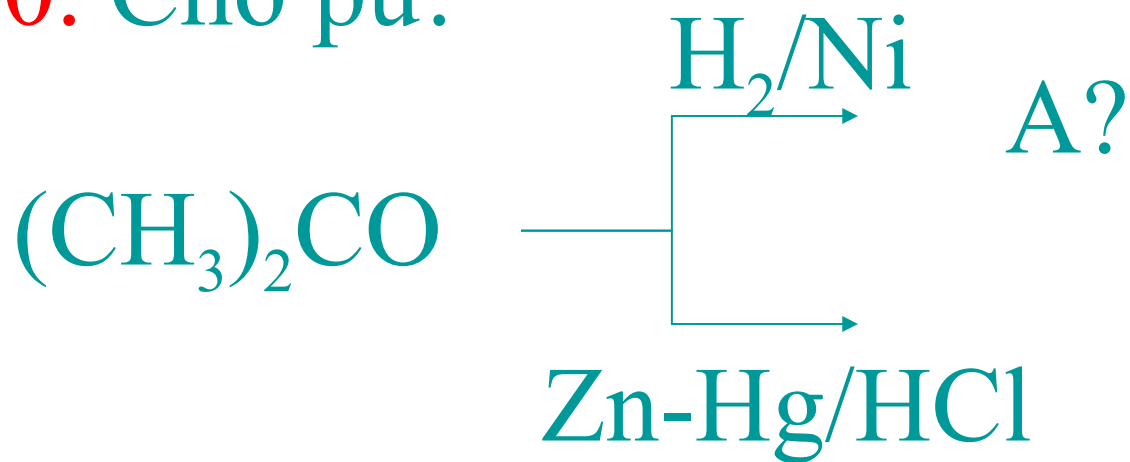
(c) Propanal + formandehit

39.



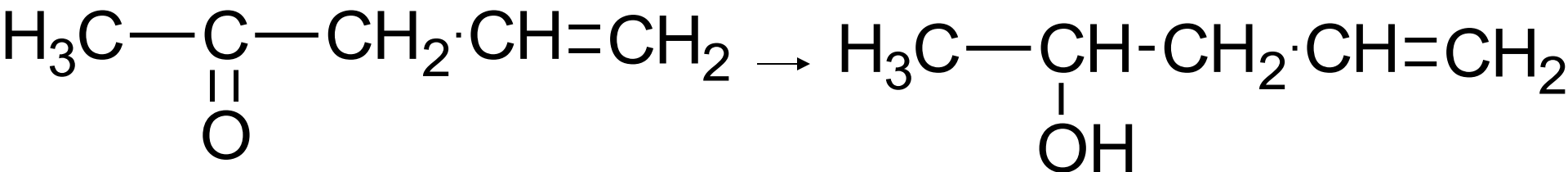
(a) Xiclopentanon + Benzandehit

40. Cho pu:



(b) Propanol-2; propan

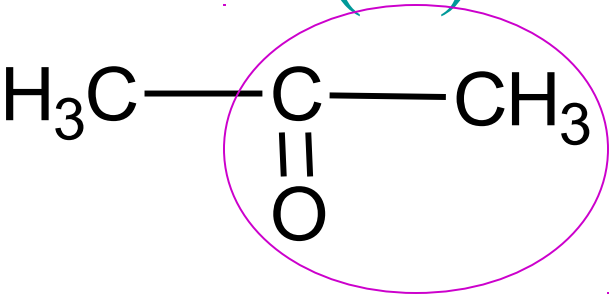
41.



(a) 4-Hidroxipenten-1

## 42. Chất cho phản ứng Haloform

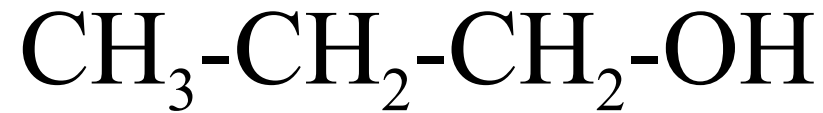
Aceton(A)



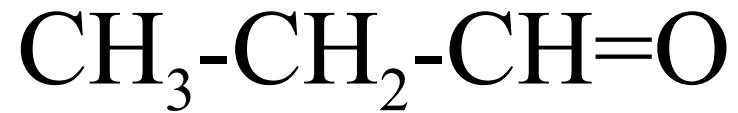
Acetaldehit(B)



Propanol-1(C)

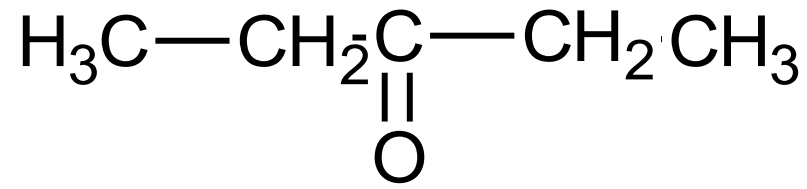
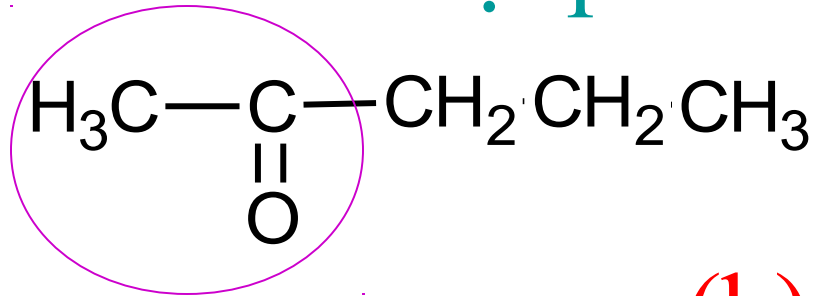


Propanal(D)



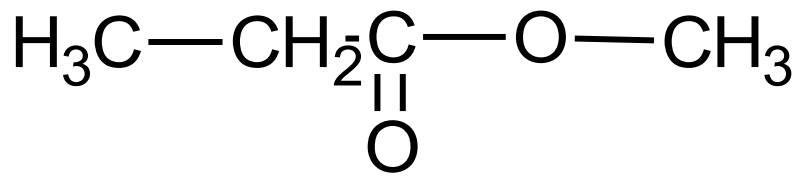
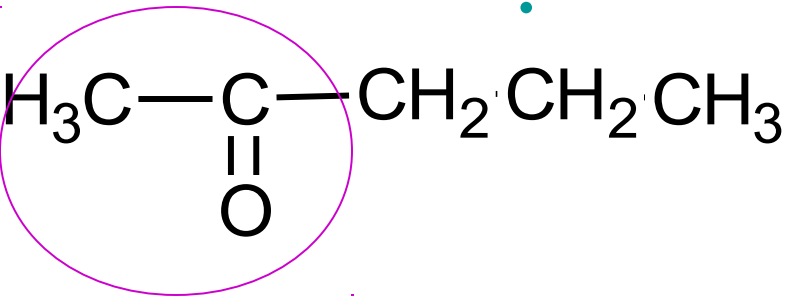
(a) A và B

### 43. Phân biệt pentanon-2 và pentanon-3:



(b)  $\text{I}_2/\text{NaOH}$

### 44. Phân biệt:

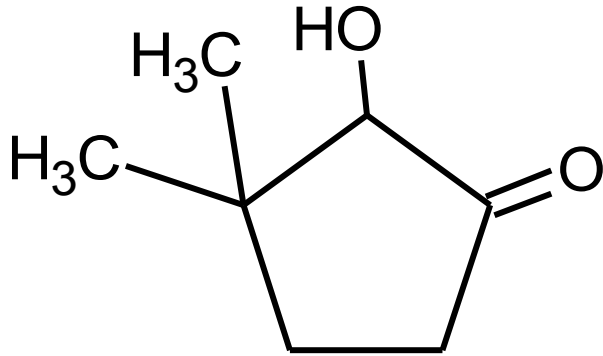


(c)  $\text{I}_2/\text{NaOH}$



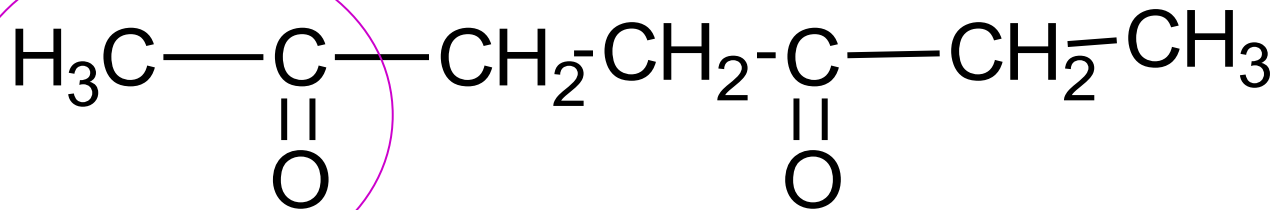
45. A(C<sub>7</sub>H<sub>12</sub>O<sub>2</sub>) cho pư với thuốc thử Tollens và pư iodoform. A là:

a. 2-Hidroxi-3,3-dimetylxiclopentanon



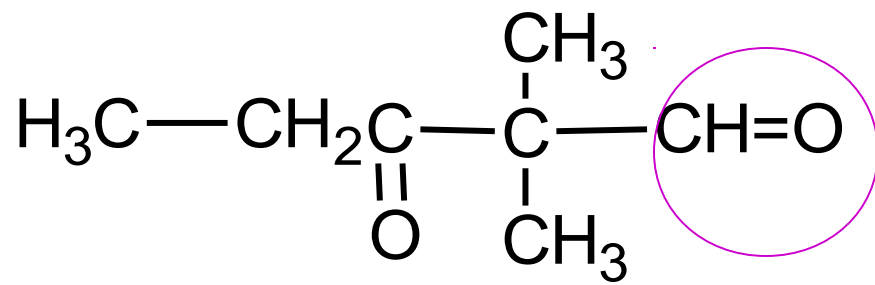
Không có nhóm:  
-CH=O và CH<sub>3</sub>-C=O

b. 2,5-heptandion



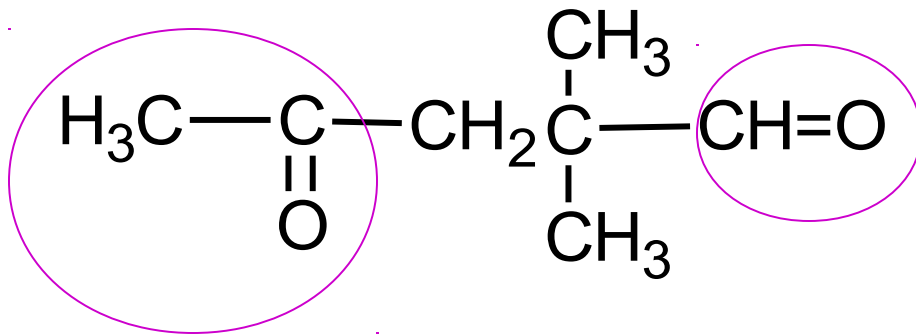
Không có nhóm -CH=O

### c. 2,2-Dimethylpentadion-1,3



Không có nhóm:  
 $\text{CH}_3-\text{C}=\text{O}$

### d. 2,2-Dimethylpentadion-1,4



(d)

# CHƯƠNG V:

## AXIT CARBOXYLIC VÀ DẪN XUẤT

1. Tên gọi của:  $\text{HOOC-CH}_2\text{-COOH}$ ;  $\text{HOOC(CH}_2)_2\text{-COOH}$ ;  $\text{CH}_3\text{-CH=CH-COOH}$ ;  $\text{CH}_3\text{-CH(OH)-COOH}$  lần lượt là:

a. Axit propandioic; axit butandioic; axit butenoic; axit lactic

b. Axit propandioic; axit butandioic; axit 2-butenoic; axit lactic

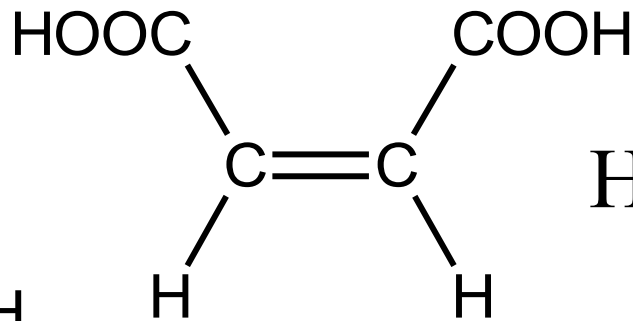
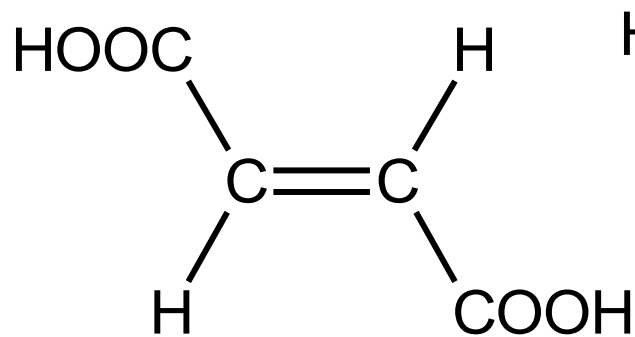
c. Axit Malonic; axit succinic; axit crotonic; axit hidroxipropanoic

d. b, c đều đúng.

Câu b

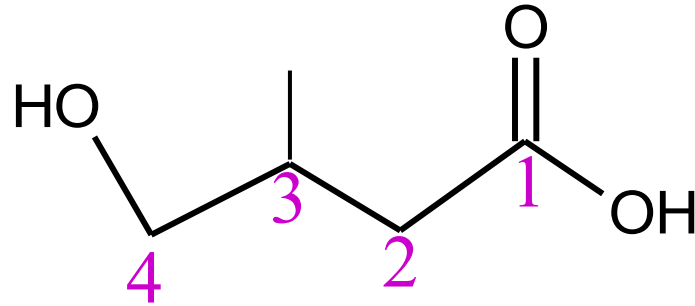
2. Tên gọi của:  $\text{CH}_3-(\text{CH}_2)_3-\text{COOH}$ ;  
 $\text{HOOC}(\text{CH}_2)_3\text{COOH}$ ;  $\text{HOOC}(\text{CH}_2)_4\text{COOH}$   
(a) Axit valeric; axit glutaric; axit adipic

3. Tên gọi của:



(b) Axit fumaric; axit maleic; axit malonic

4. Tên quốc tế của:

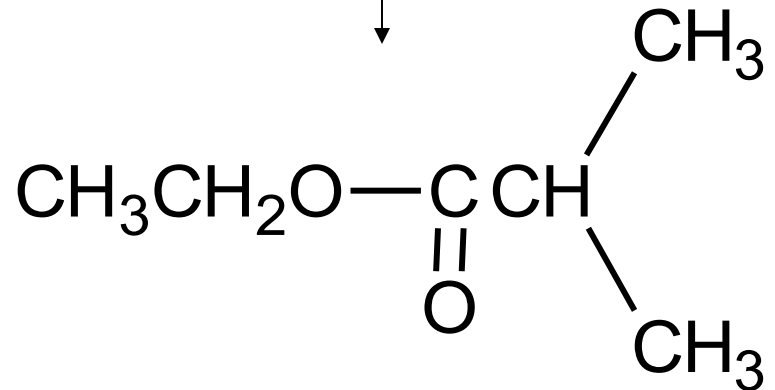


(a) Axit 4-hidroxy-3-metylbutanoic

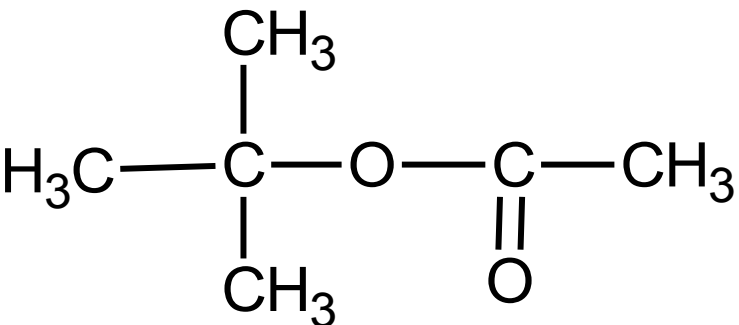
5. Hợp chất đọc tên không đúng:

a. isopropylpropanoat  $C_2H_5OOCCH(CH_3)_2$

Gọi tên sai



b. tert-butylaxetat

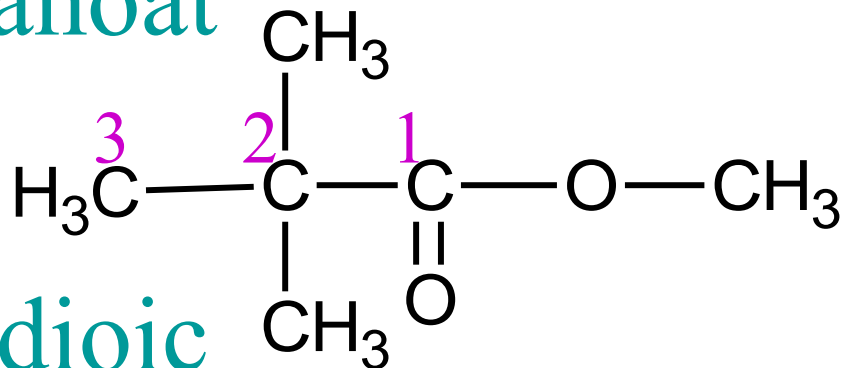


đúng

c. Metyl 2,2-dimetylpropanoat



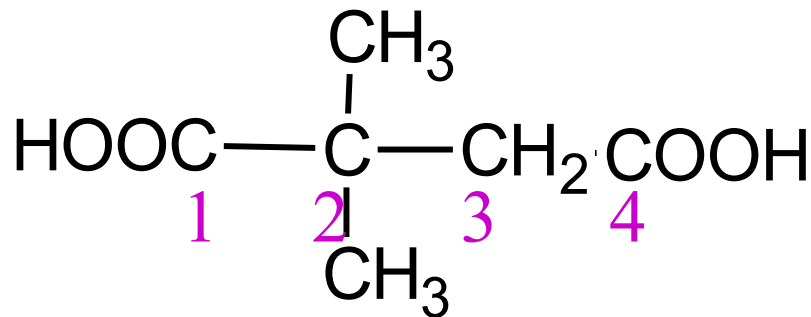
đúng



d. Axit 2,2-dimetylbutandioic

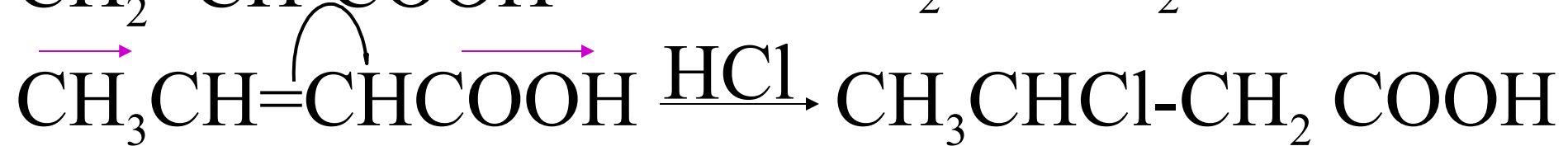
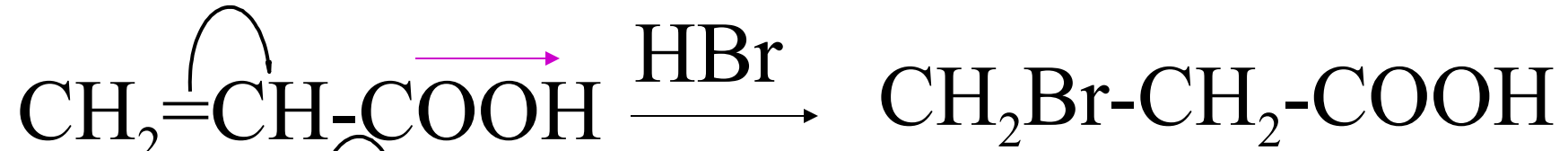


đúng



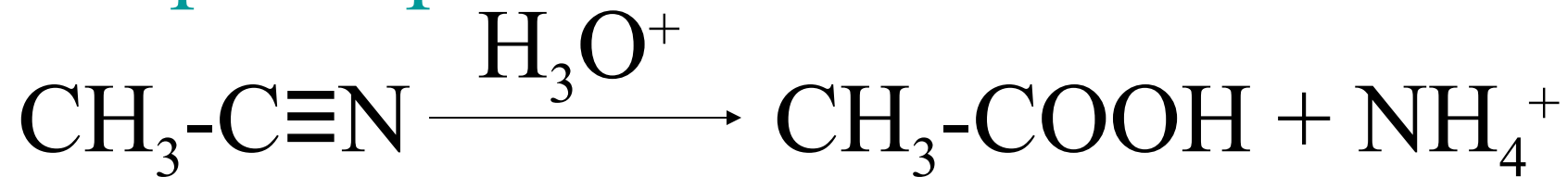
Câu (a)

## 6. Thực hiện pư:



Câu (a)

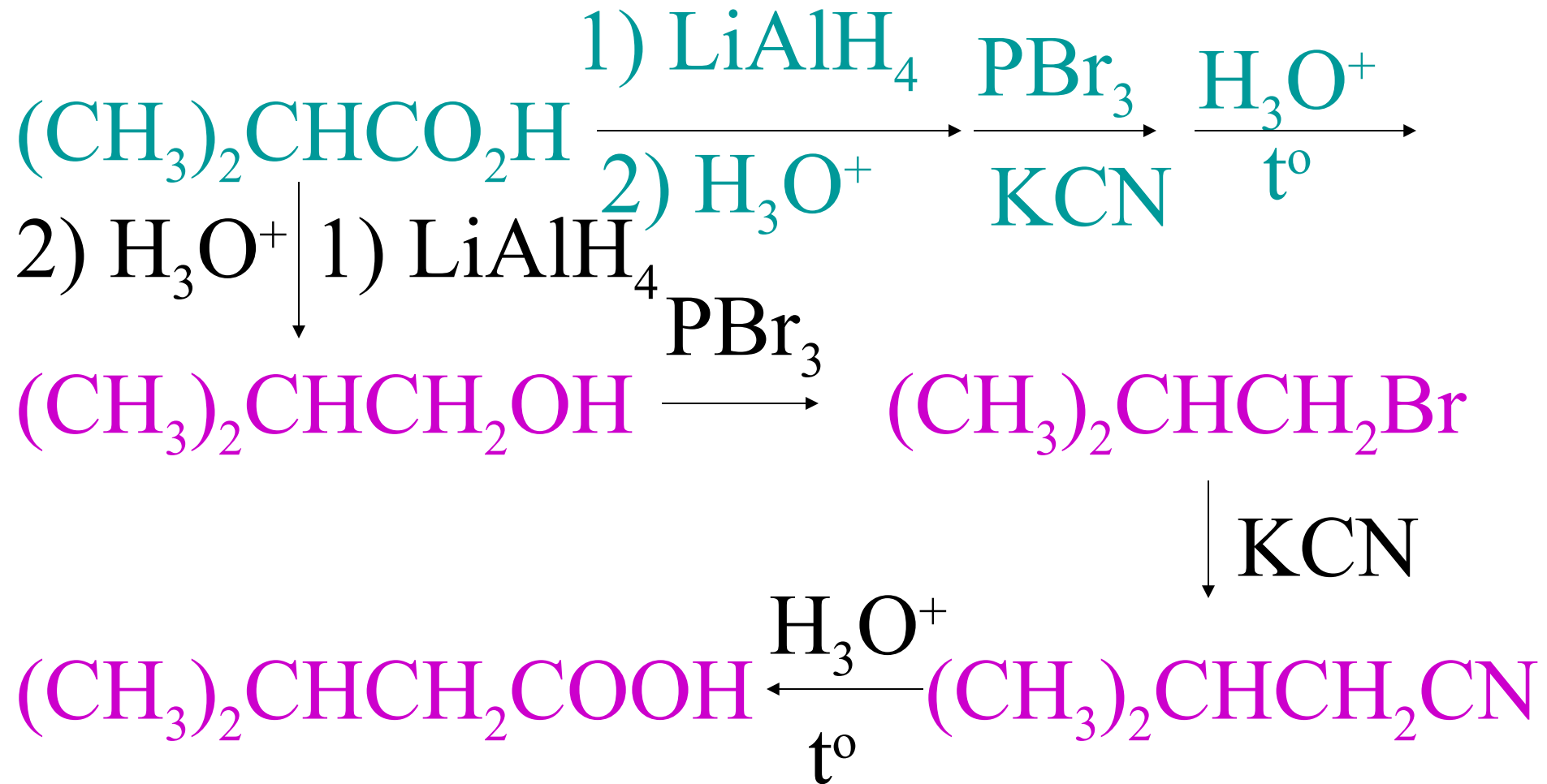
## 7. Sp của pư:



Câu (c)

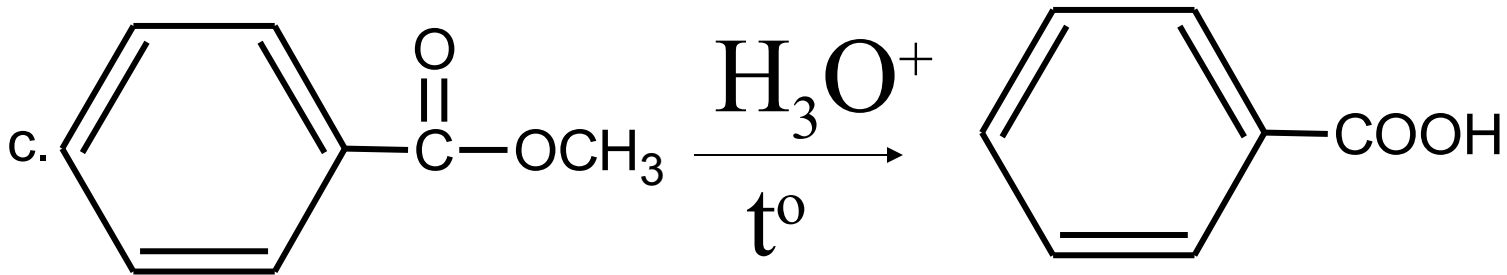
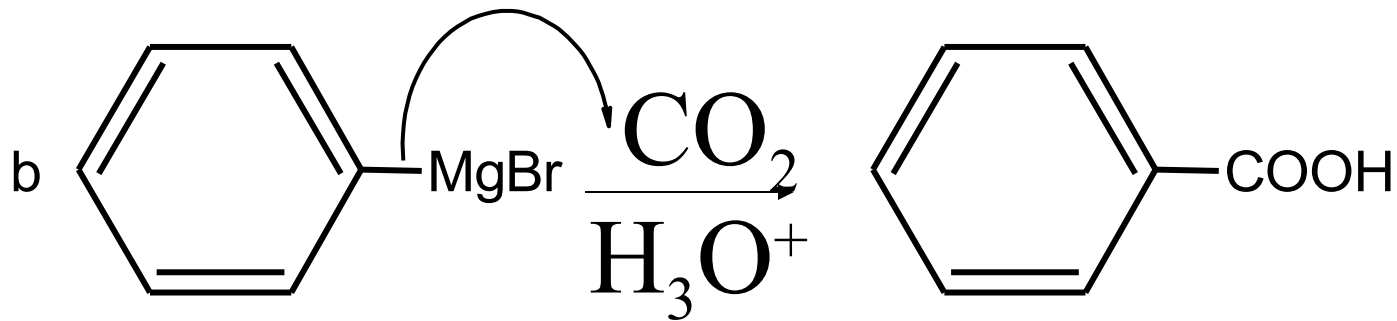
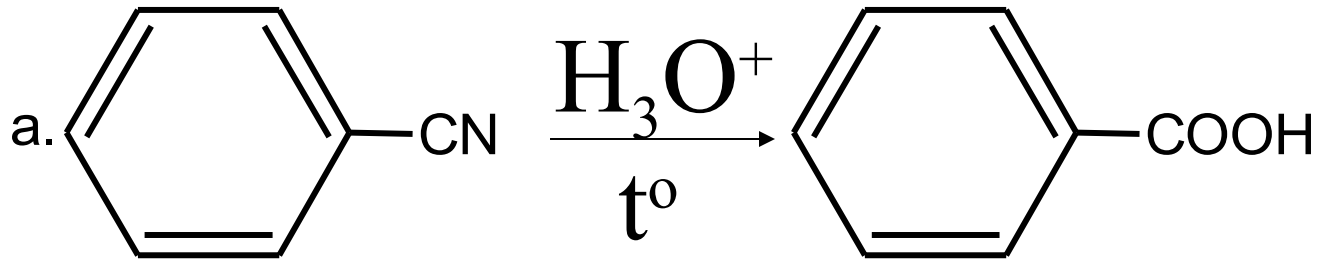


8. Sp của chuỗi pu:



(d)

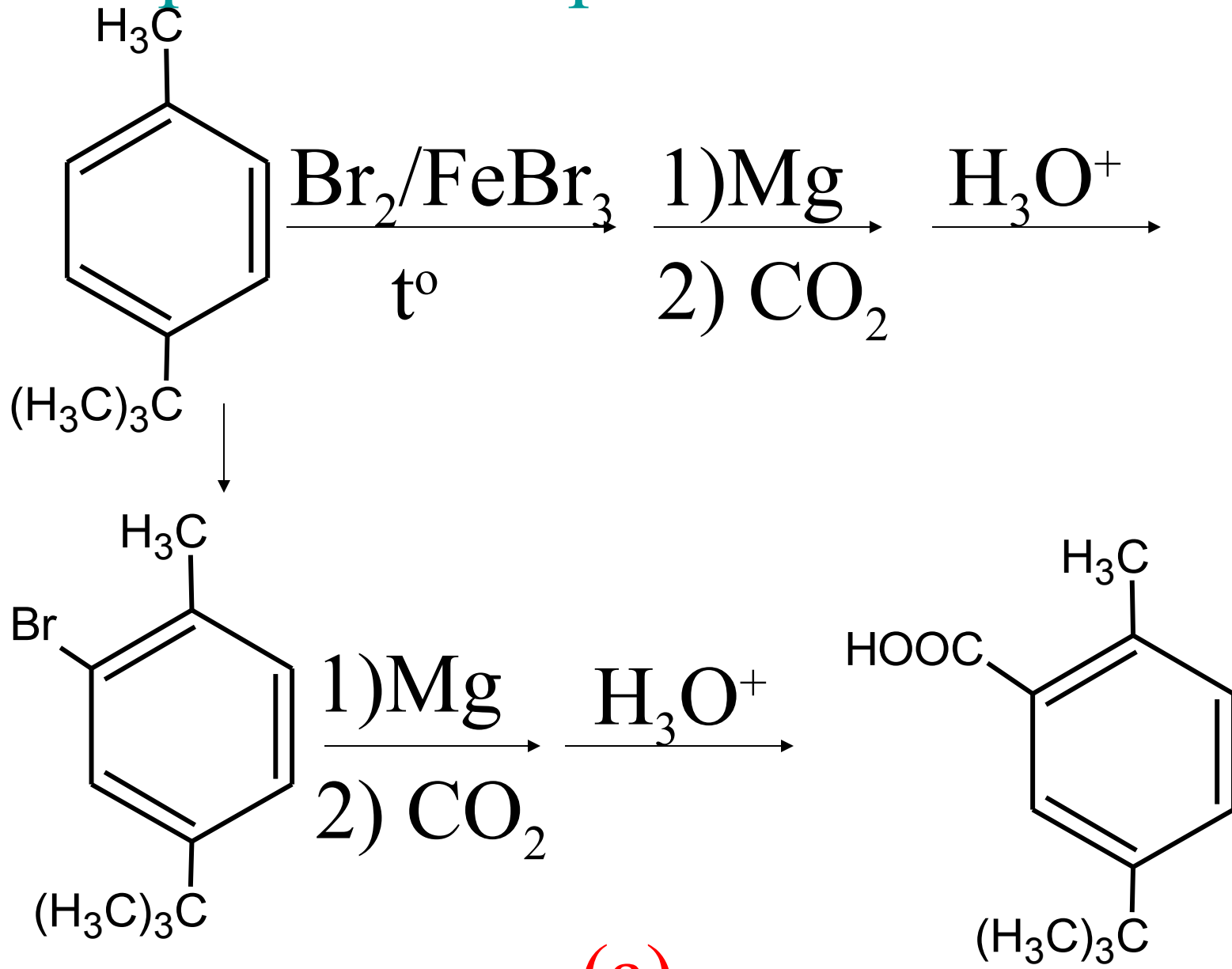
## 9. Pư nào $\rightarrow$ axit benzoic ?



d. Tất cả đều đúng

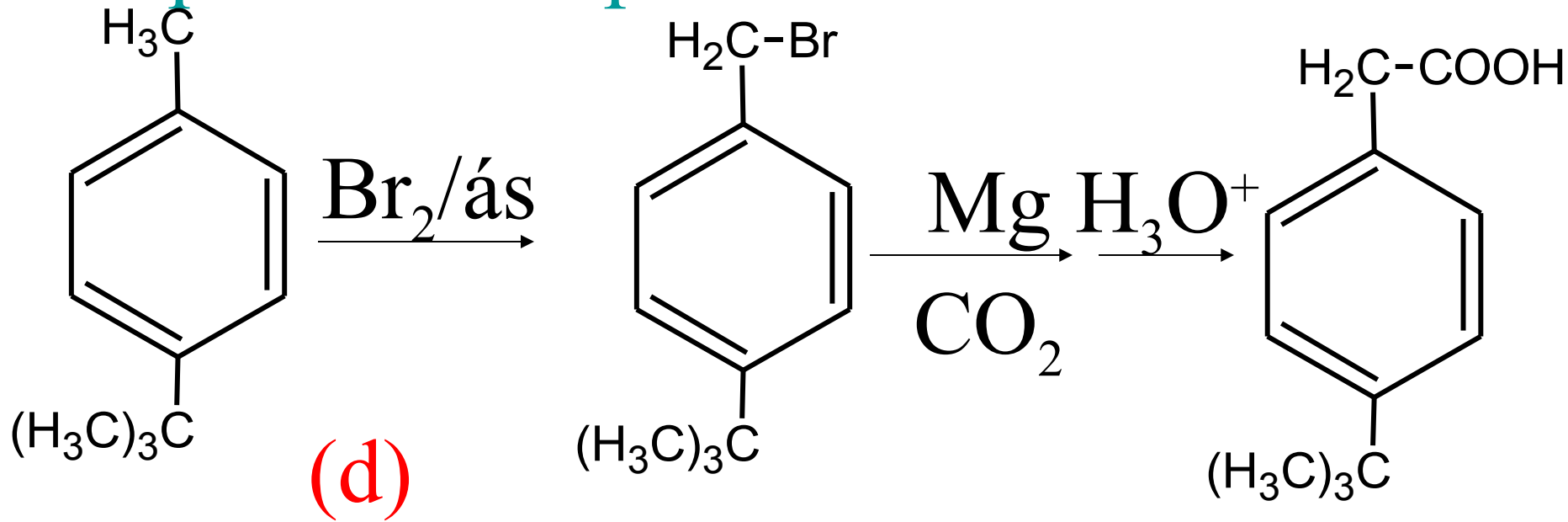
(d)

# 10. Sp của chuỗi pư:

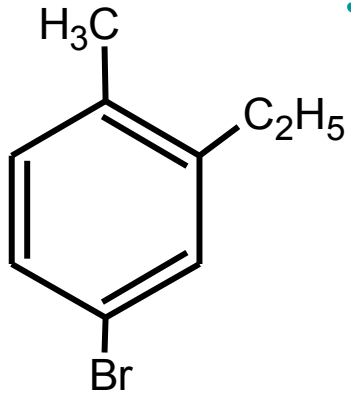


(a)

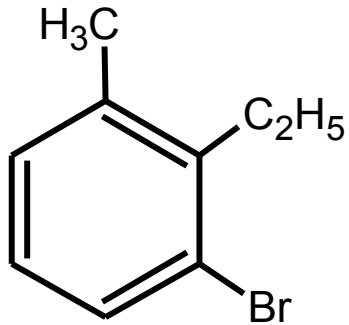
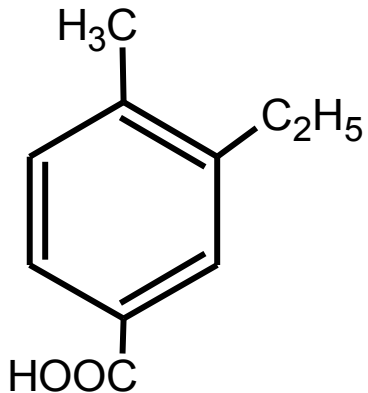
# 11. Sp của chuỗi pư:



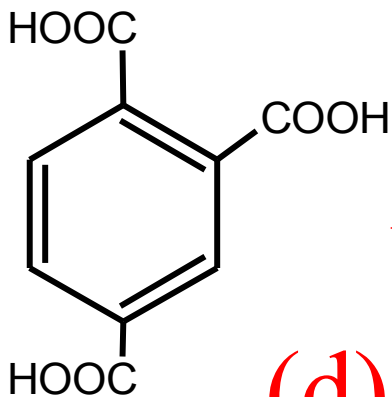
12. 2 đồng phân A, B ( $C_9H_{11}Br$ )  $\xrightarrow{\text{Grignard}}$  2 axit carboxylic C, D  $\xrightarrow{KMnO_4}$  1 axit tricarboxylic E. A và B là:



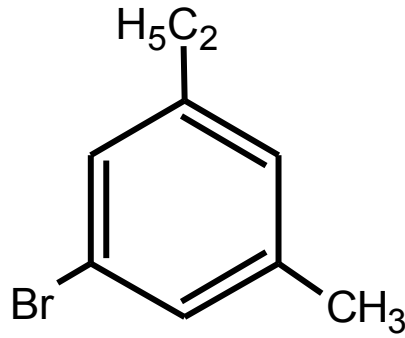
(I) ↓



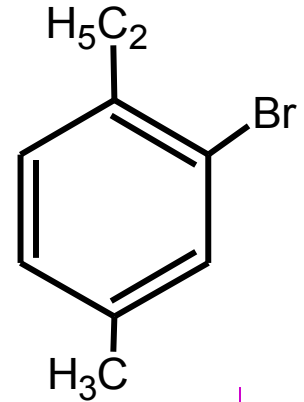
(II)



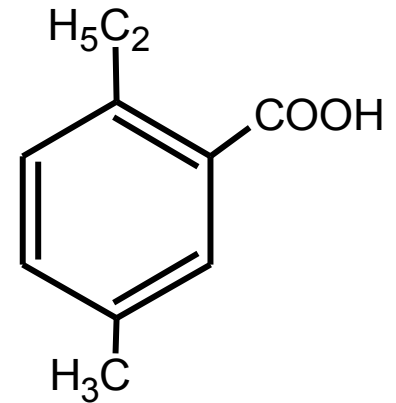
(d)



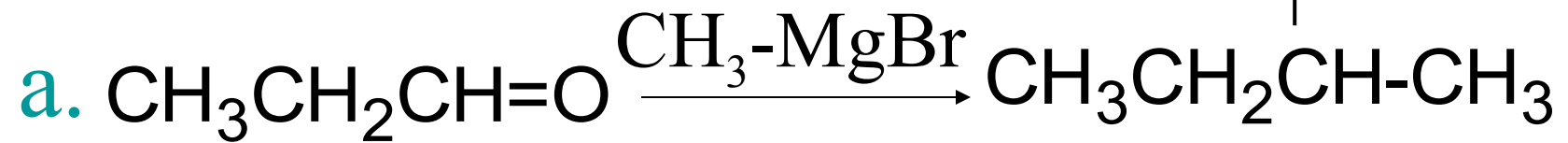
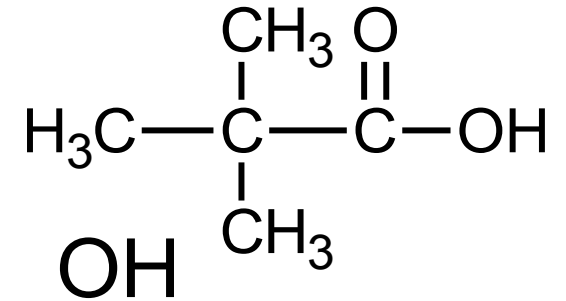
(III)



(IV) ↓

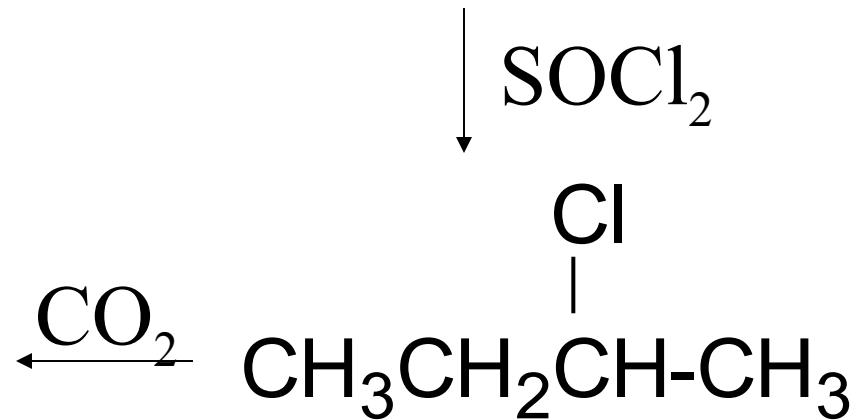


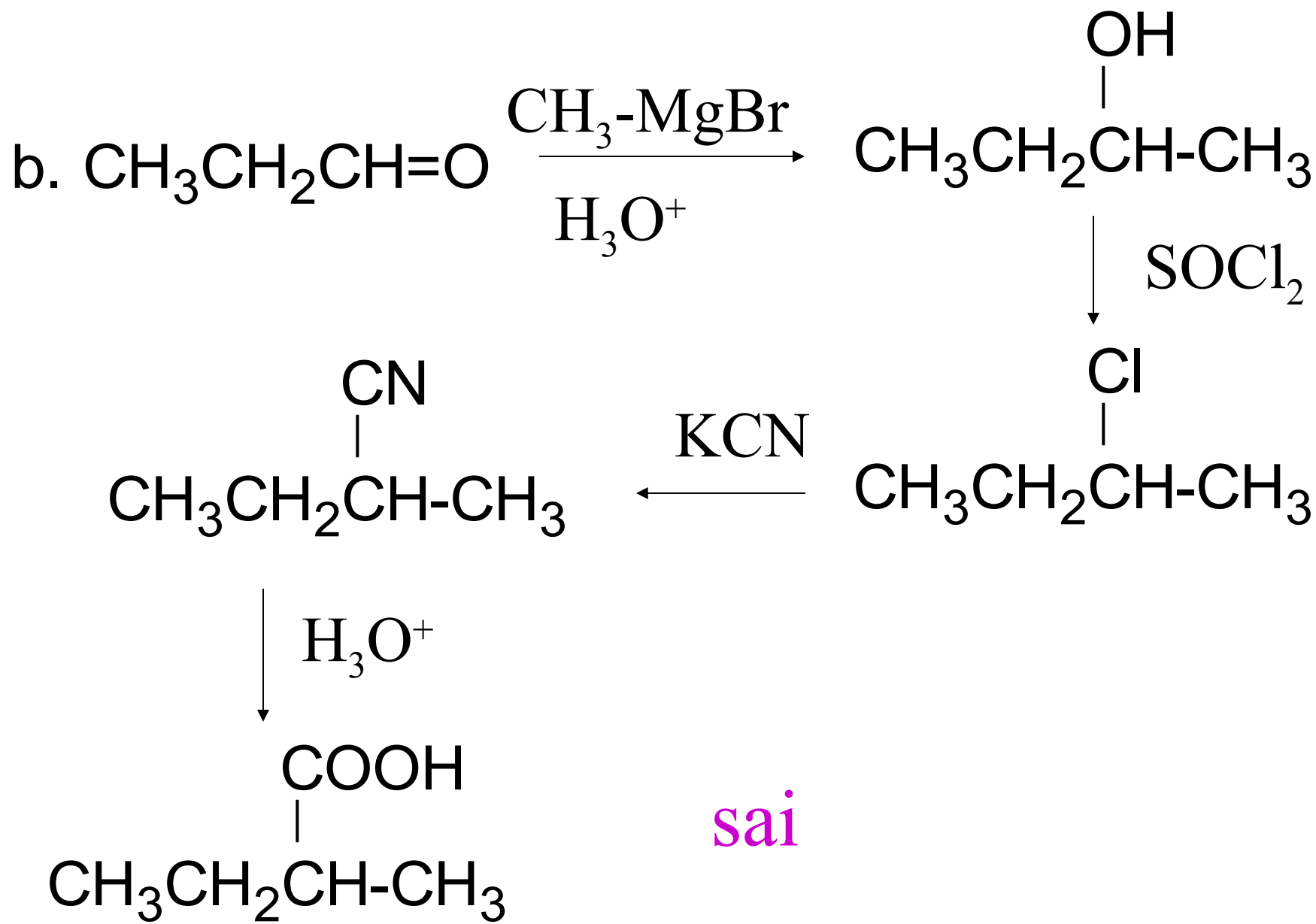
13. Chuỗi pư nào dùng để điều chế:

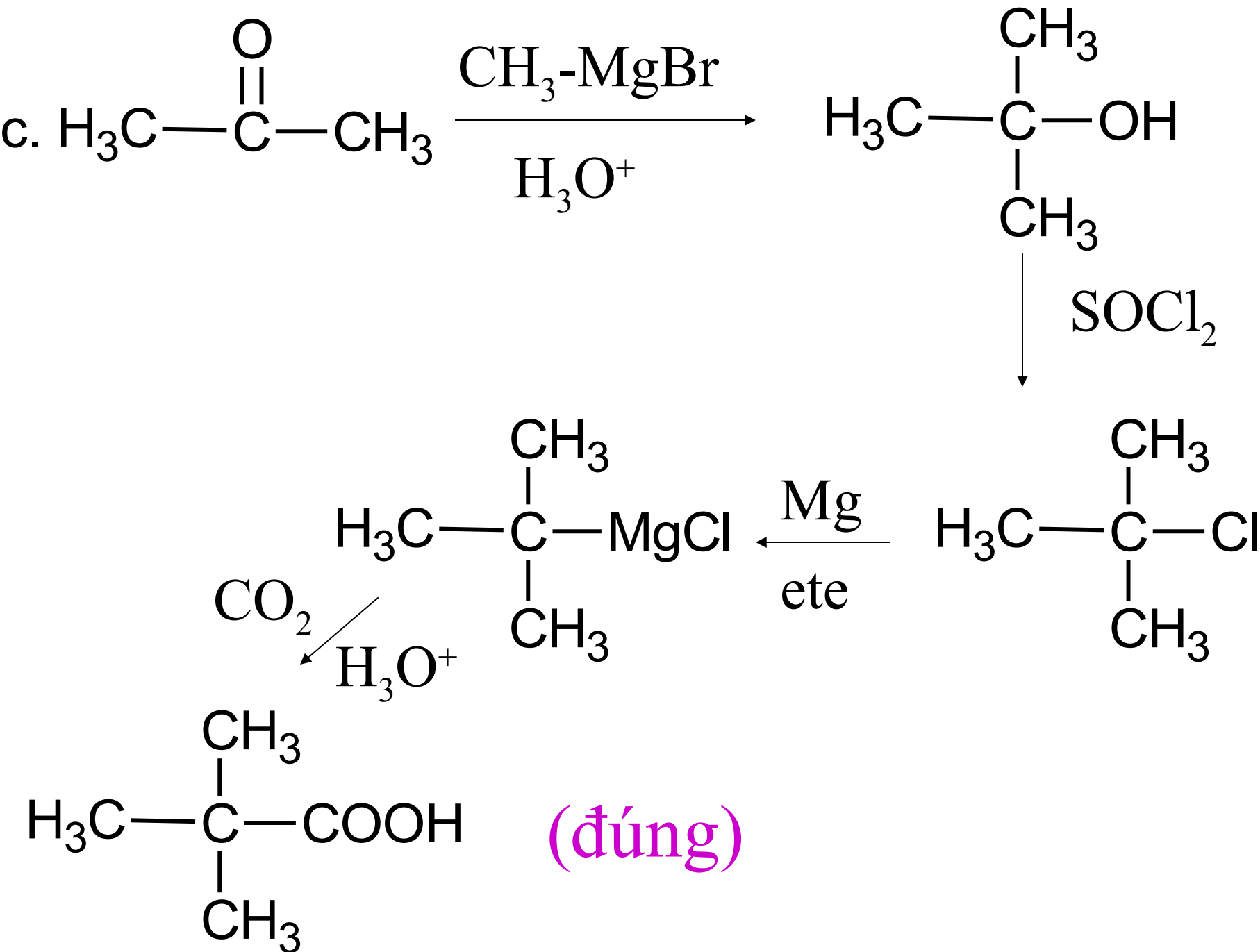


sai

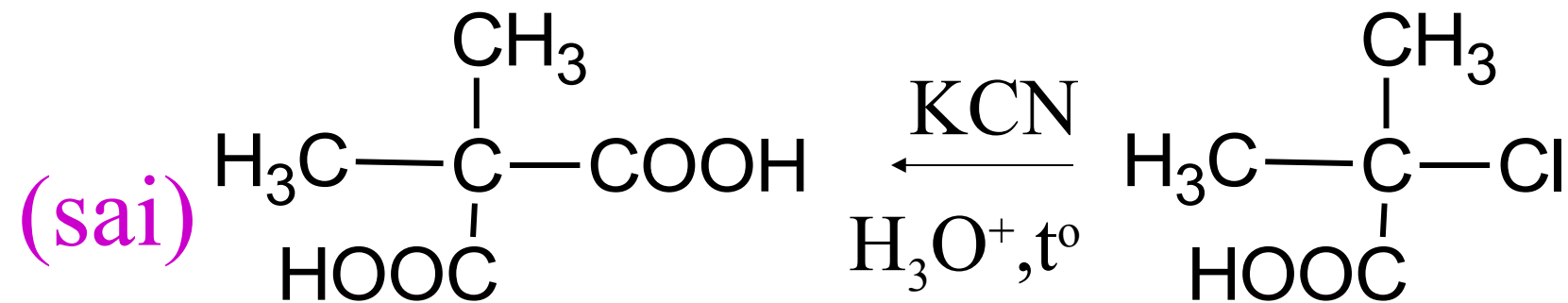
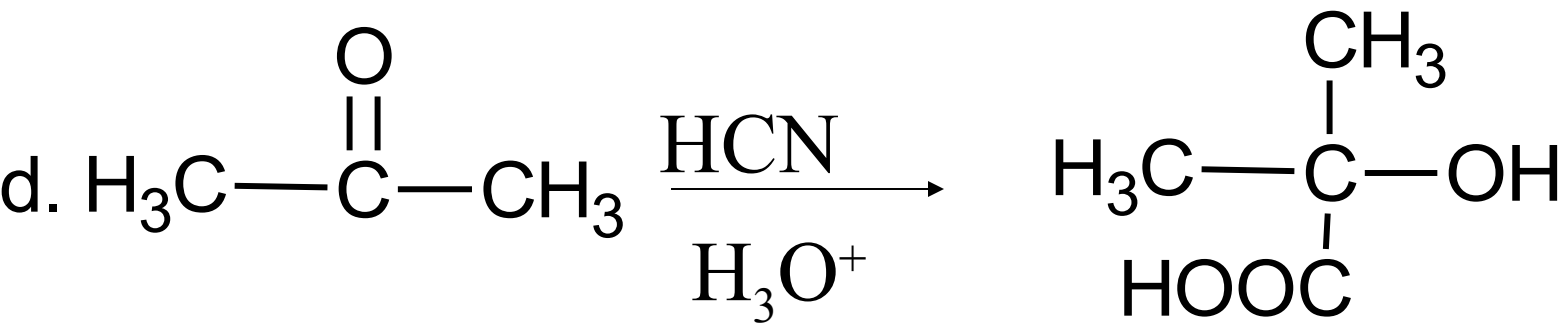
Không pư





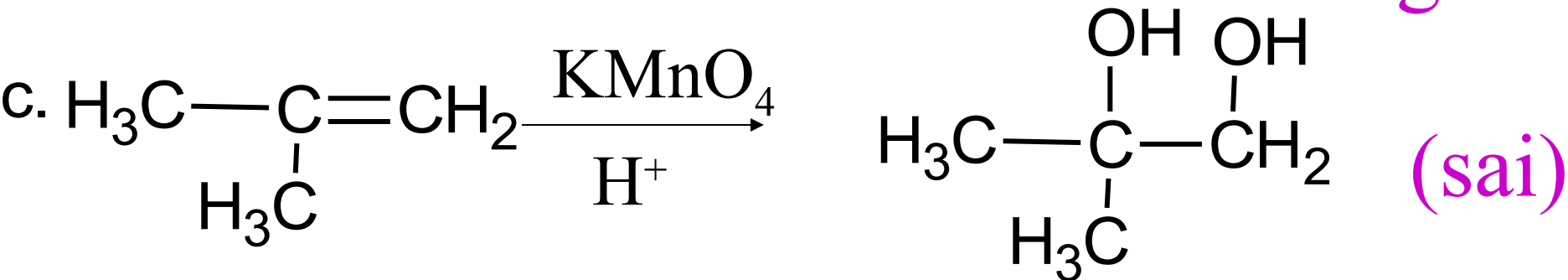
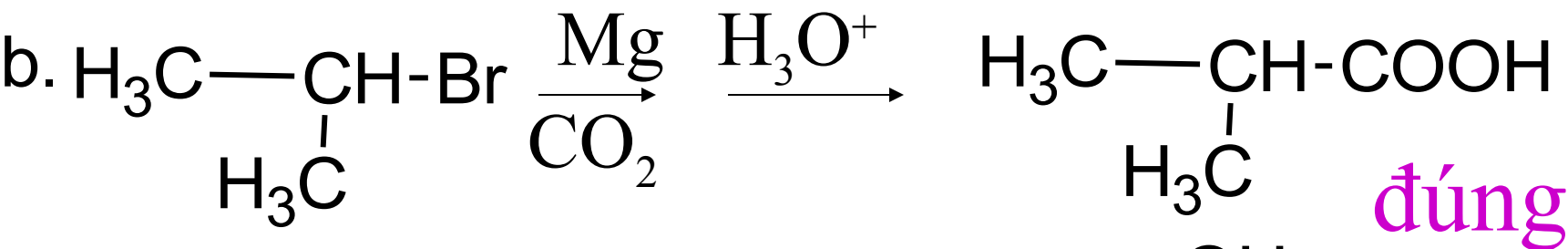
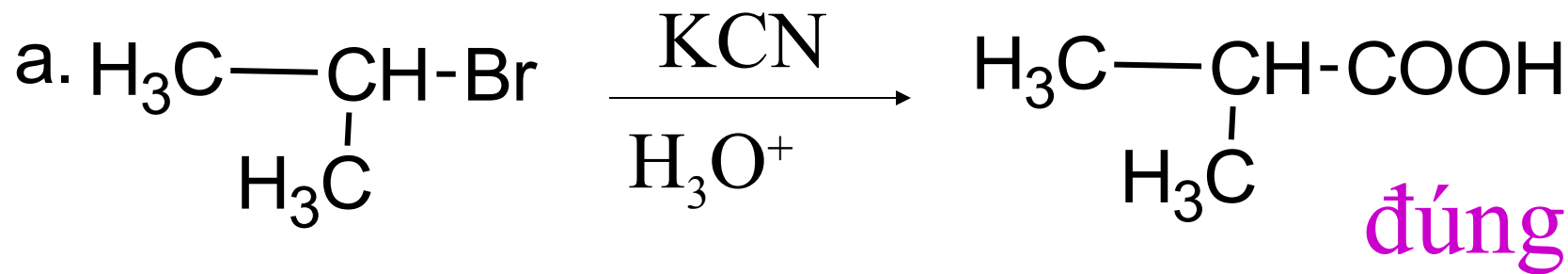






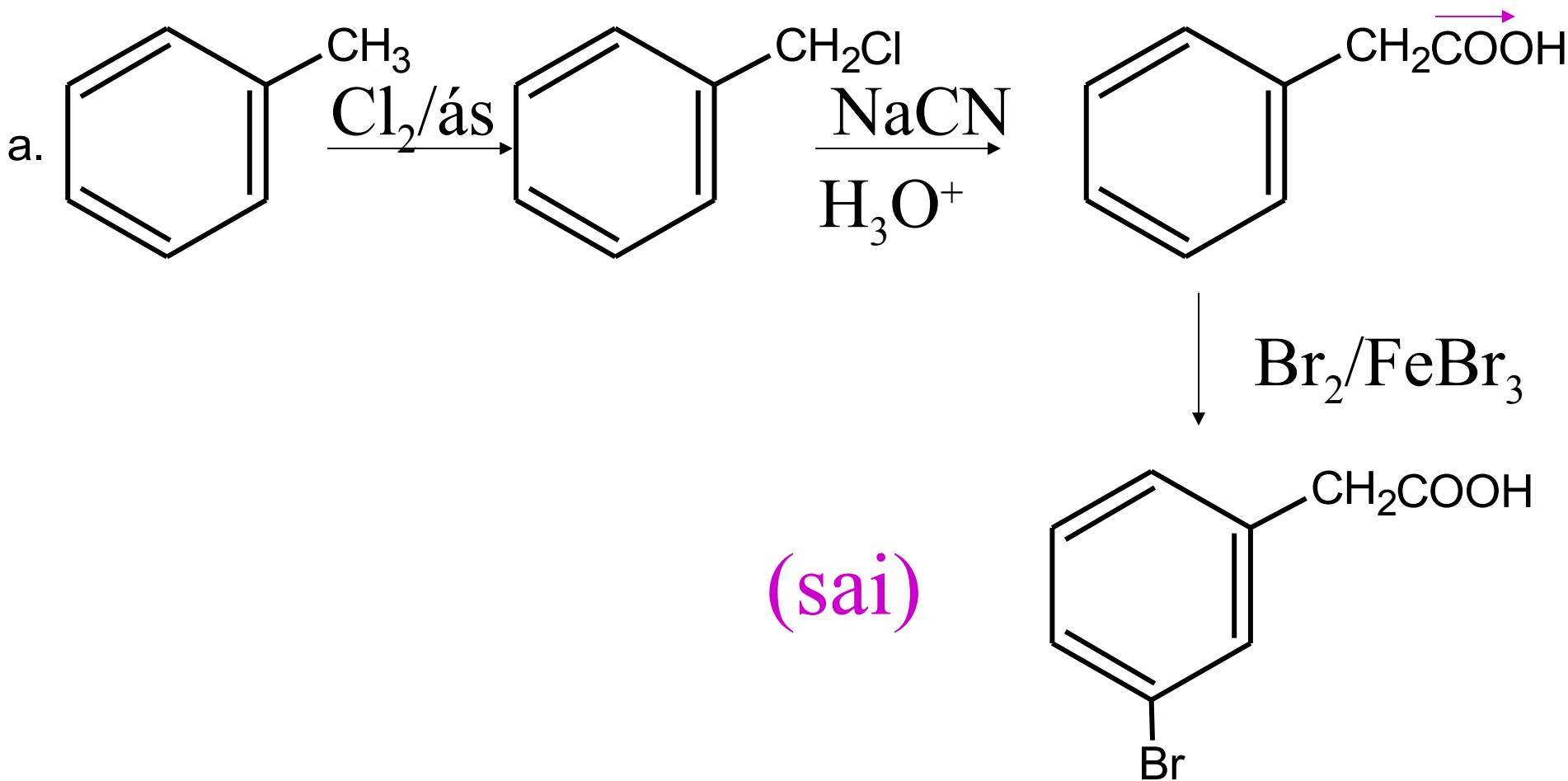
(c)

14. Chuỗi pu để điều chế:  $\text{H}_3\text{C}-\underset{\text{H}_3\text{C}}{\overset{2}{\text{C}}}\text{H}-\text{COOH}$

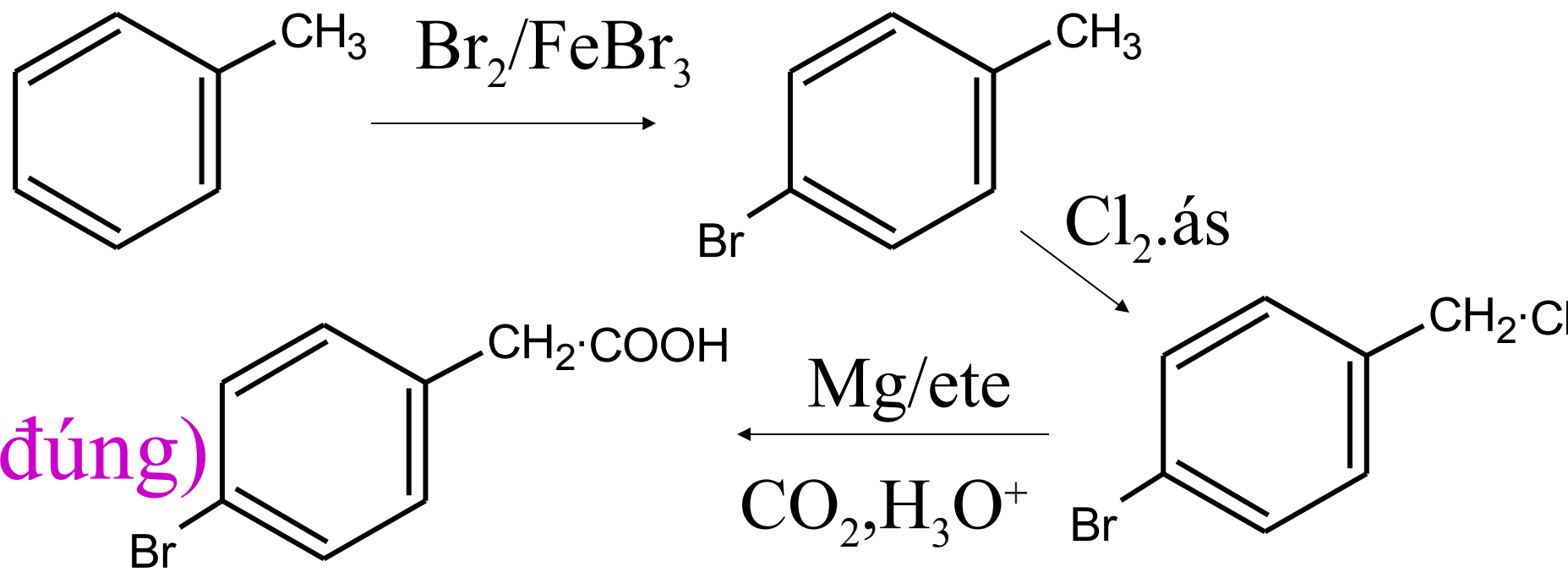


(d) a,b đều đúng

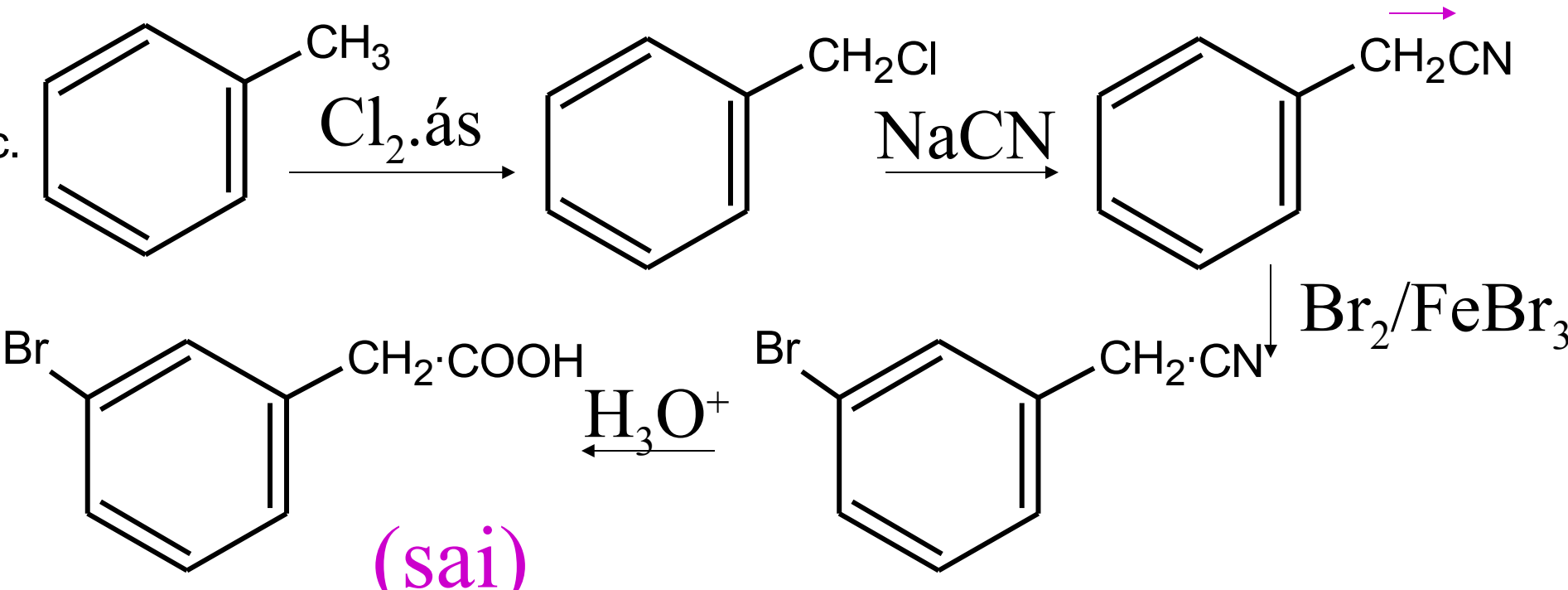
# 15. Từ toluen $\rightarrow$ axit p-bromphenylaxetic



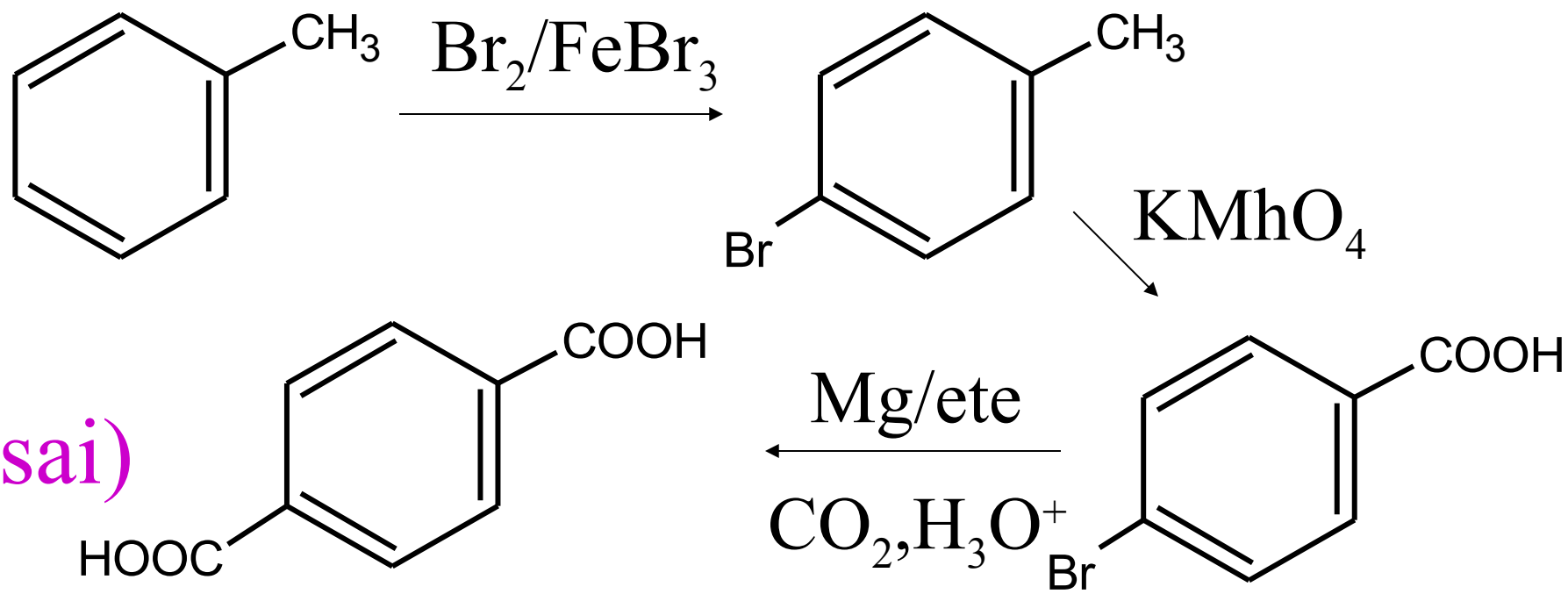
b.



c.



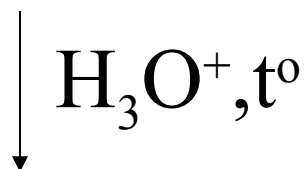
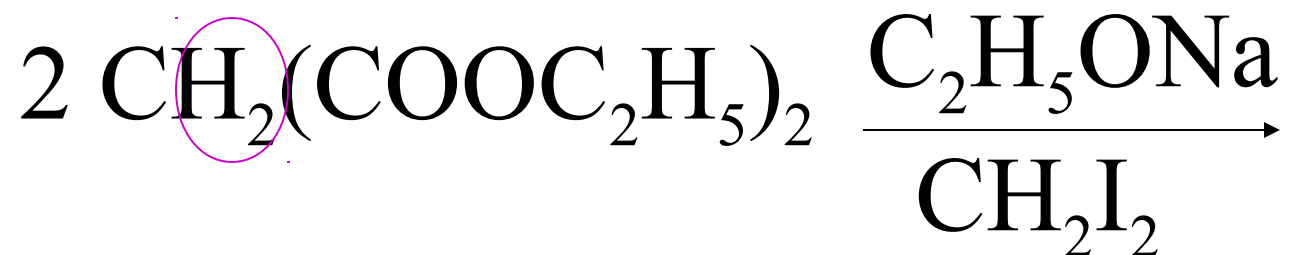
d.



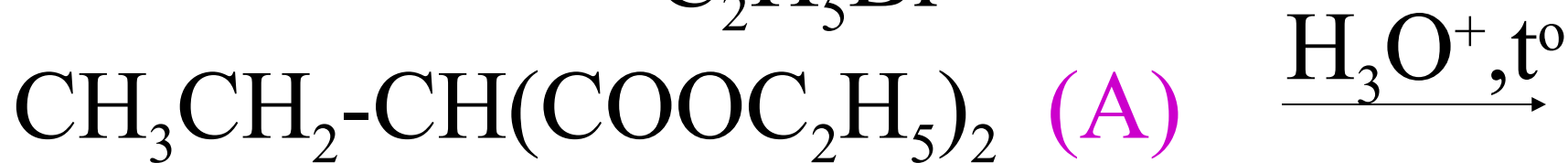
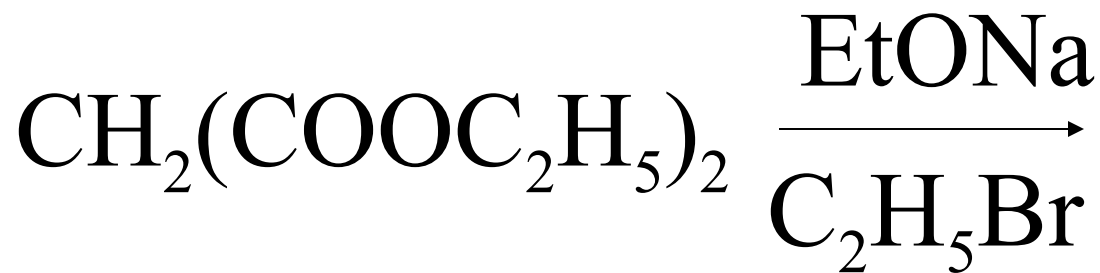
(sai)

(b)

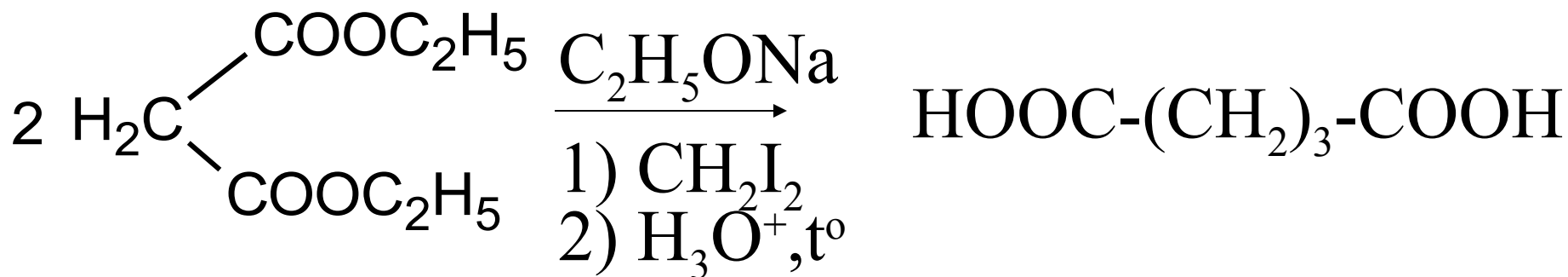
## 16. Thực hiện pư:



## 17. Thực hiện pư:

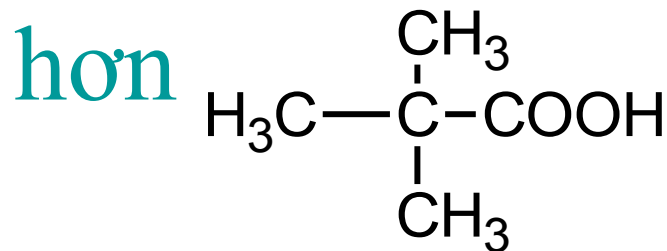


## 18, bổ túc chuỗi pư:

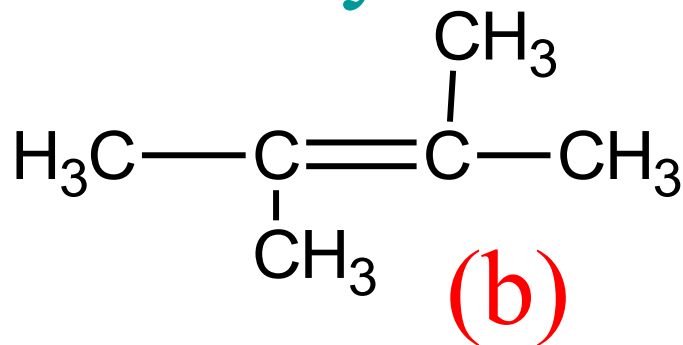
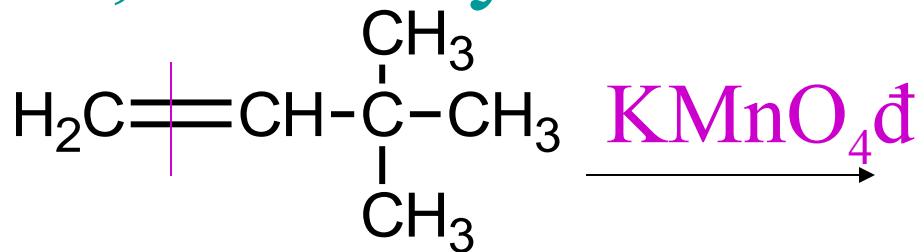


(c)

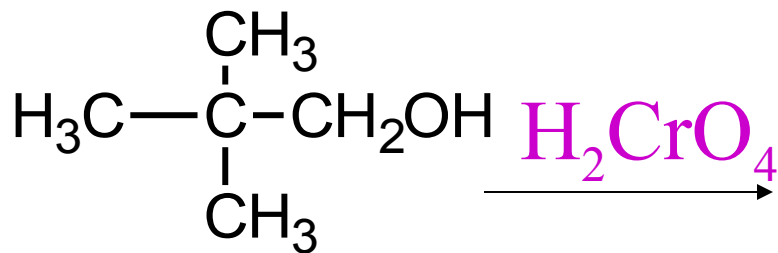
19. Chất không thể chuyển hóa thành axit 2,2-Dimethylpropanoic qua 2 bước hoặc ít hơn



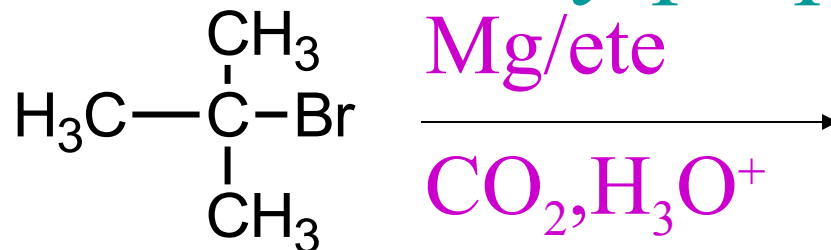
a. 3,3-dimethylbuten-1      b. 2,3-dimethylbuten-2



c. 2,2-dimethylpropanol-1



d. 2-brom-2-metylpropan





## 20. Tính axit tăng dần ?

(I) Axit adipic  $\text{HOOC}(\text{CH}_2)_4\text{COOH}$

(II) Axit malonic  $\text{HOOCCH}_2\text{COOH}$

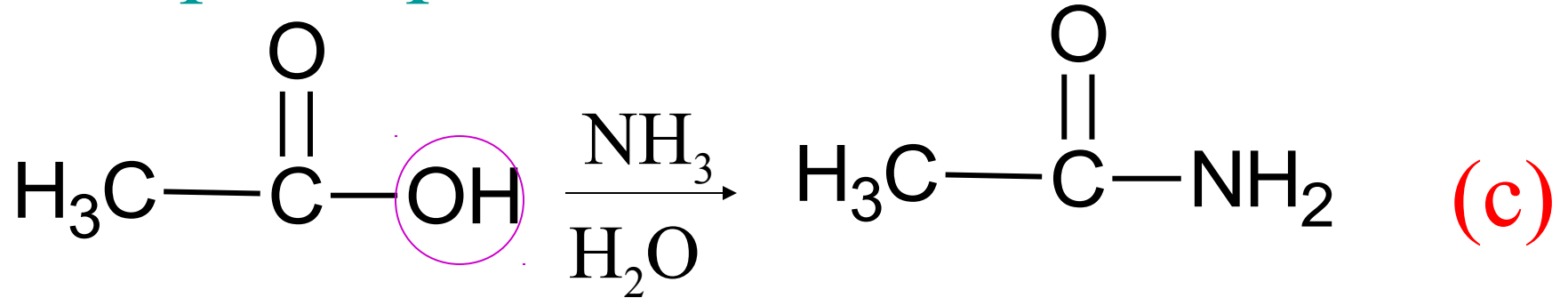
(III) Axit oxalic  $\text{HOOC-COOH}$

(IV) Axit succinic  $\text{HOOC}-(\text{CH}_2)_2-\text{COOH}$

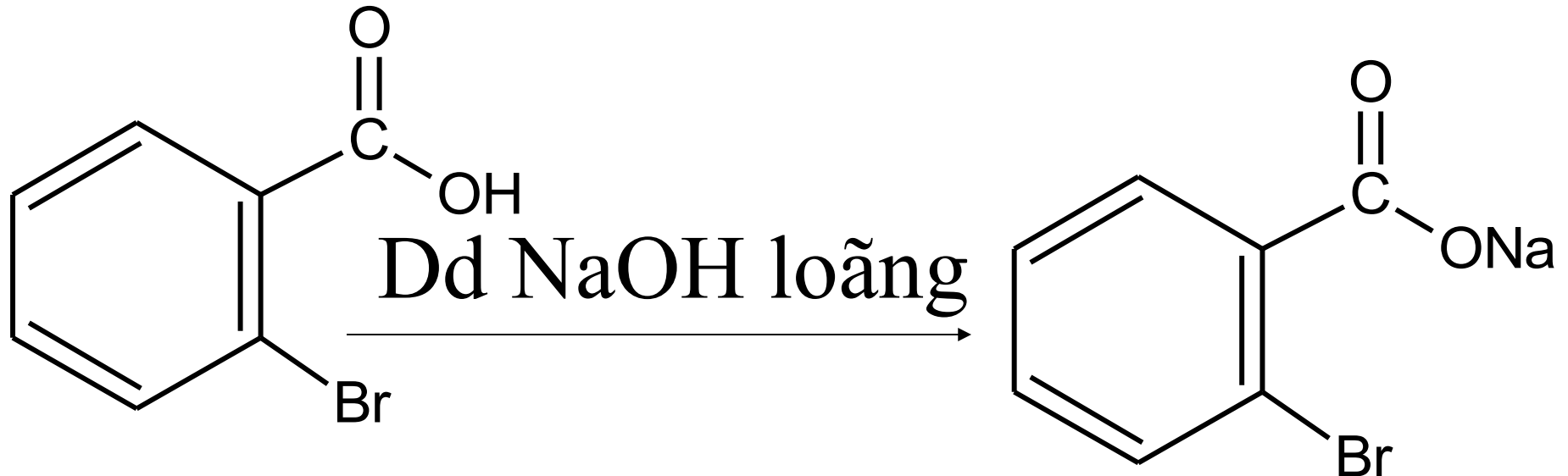
$\text{HOOC}-(\text{CH})_n-\text{COOH}$ :  $n \uparrow \Rightarrow$  tính axit  $\downarrow$

(c) (I) < (IV) < (II) < (III)

21. Sp của pu:

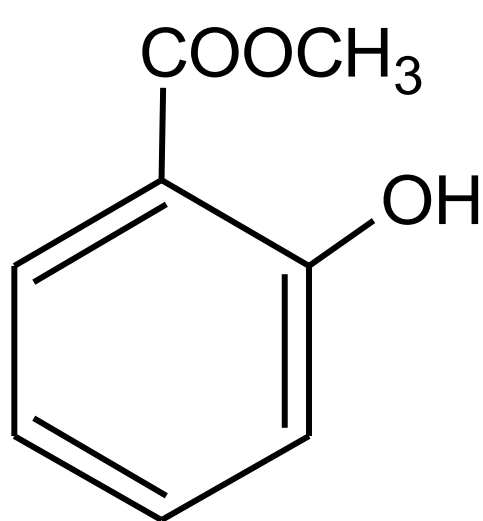
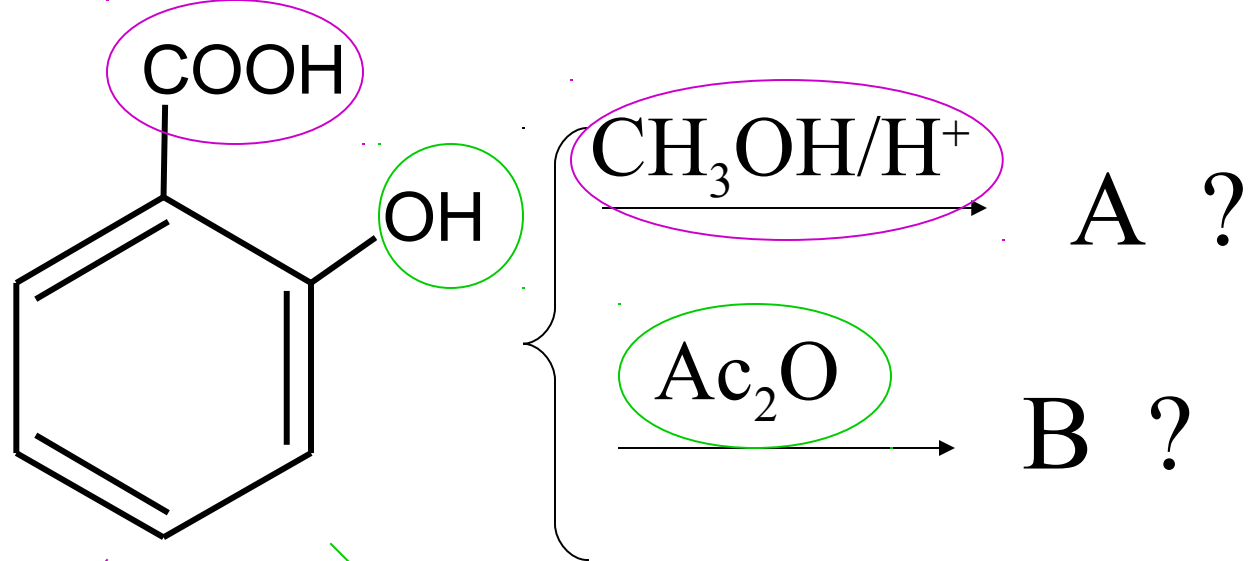


22. Sp của pu:

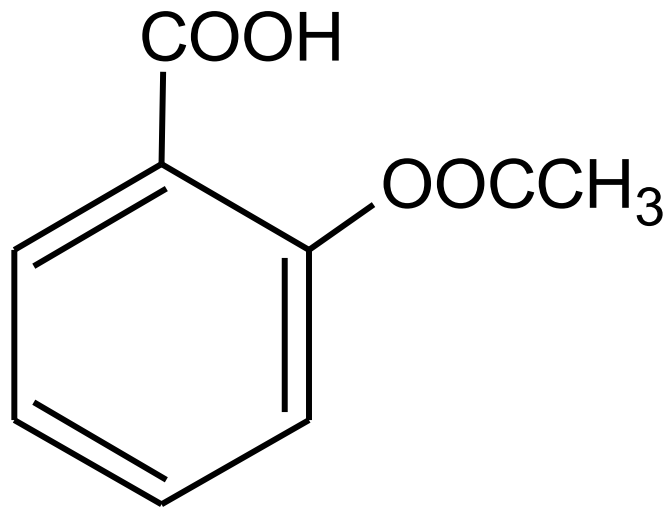


(a)

23. pu:



A

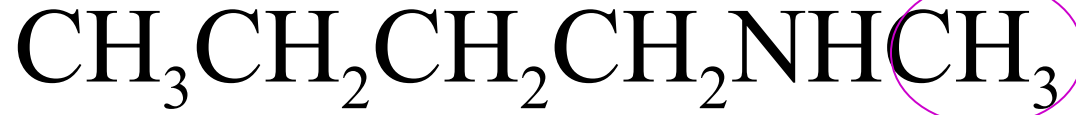


B

(d)

# CHƯƠNG VI: Hợp chất chứa Nitơ

1. Hợp chất dưới đây tên là:

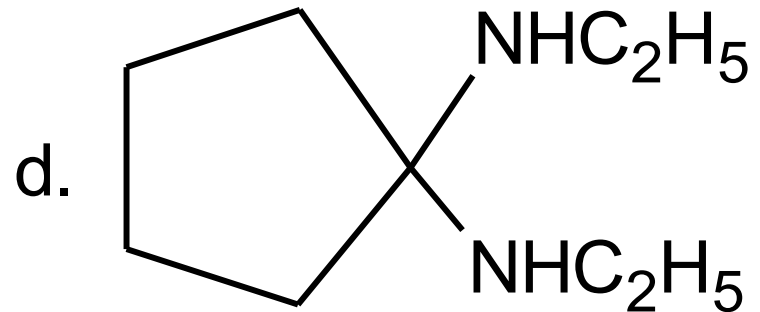
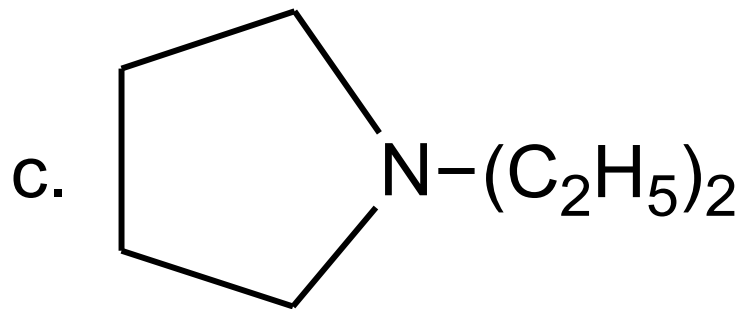
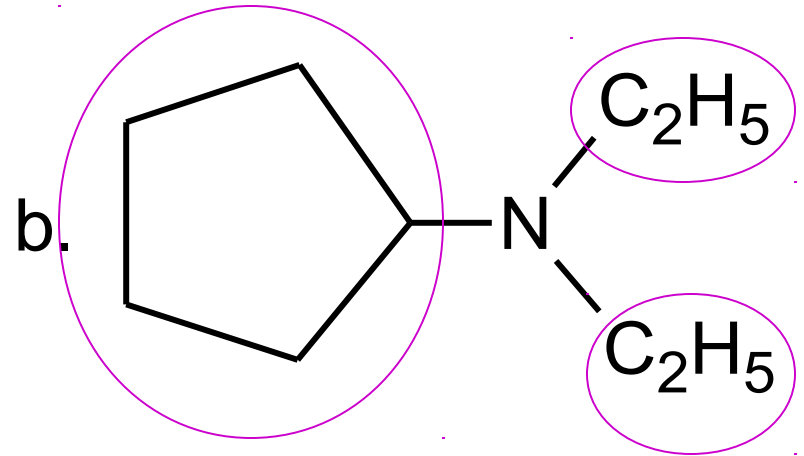
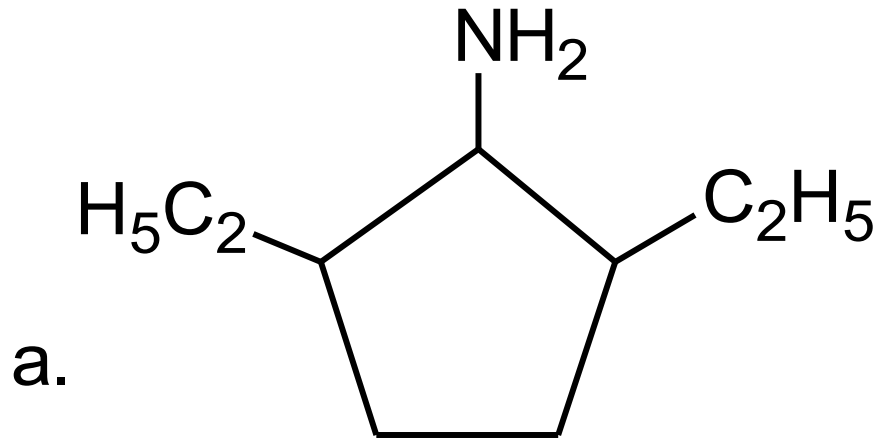


(c) Metyl-1-butylamin

2. Tên gọi:  $\text{CH}_2=\text{CHCH}_2\text{NHCH}_3$

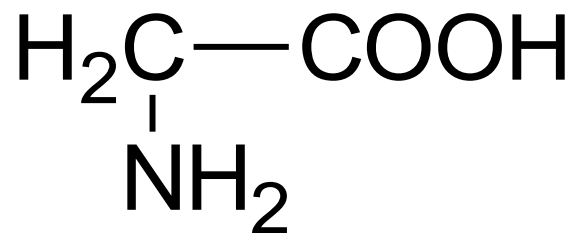
(a) Allylmetylamin

### 3. Hợp chất là xiclopentyldietylamin



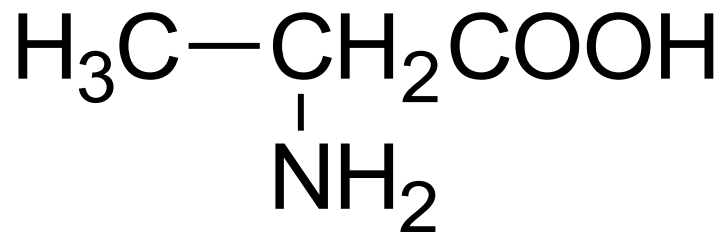
(b)

#### 4. Tên gọi các amin:



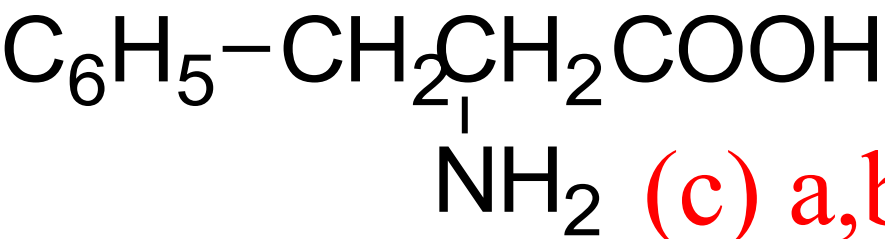
Glyxin

Axit aminoaxetic



Alanin

Axit  $\alpha$ -aminopropionic



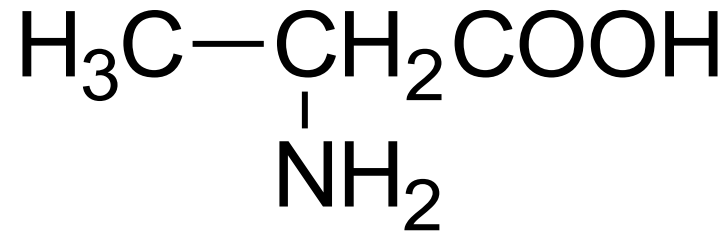
Phenylalanin

Axit  $\alpha$ -amino- $\beta$ -phenylpropionic

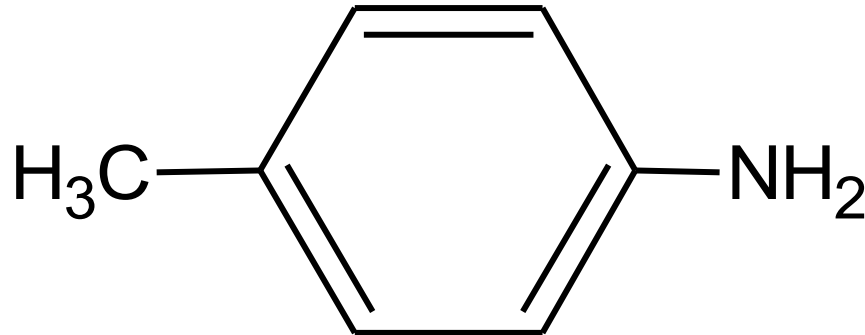
(c) a, b đúng

## 5. Bậc của các amin:

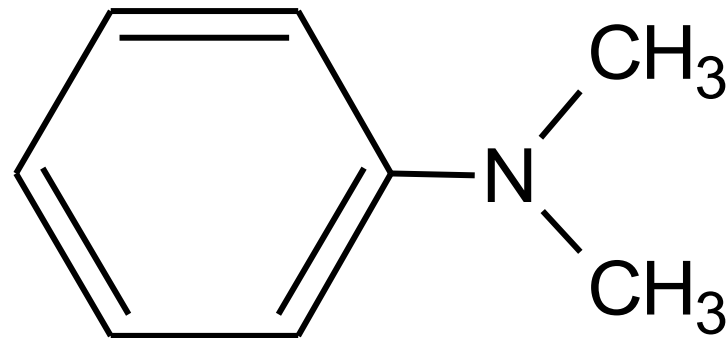
Alanin



p-Toludin

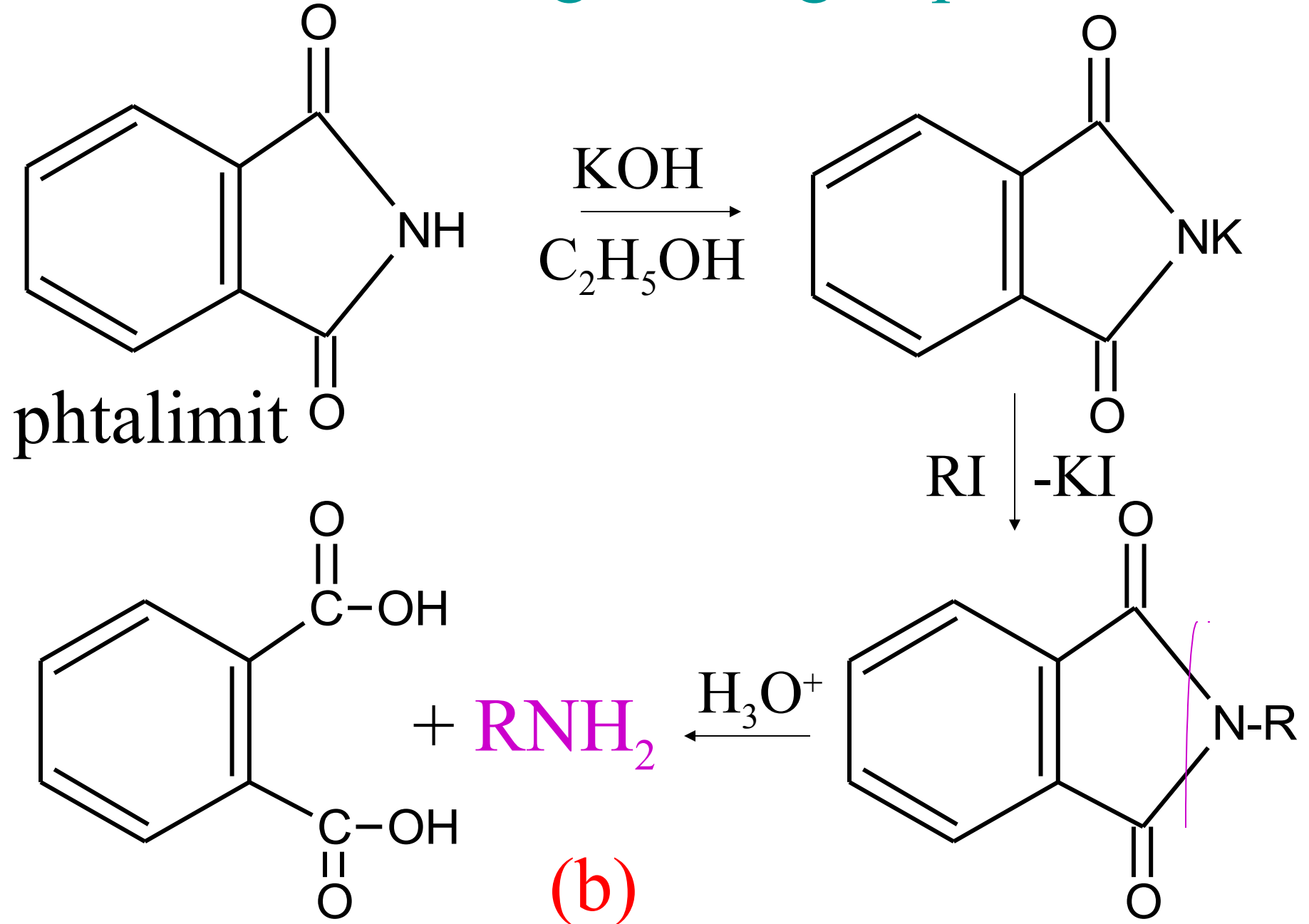


N,N-dimetylanilin



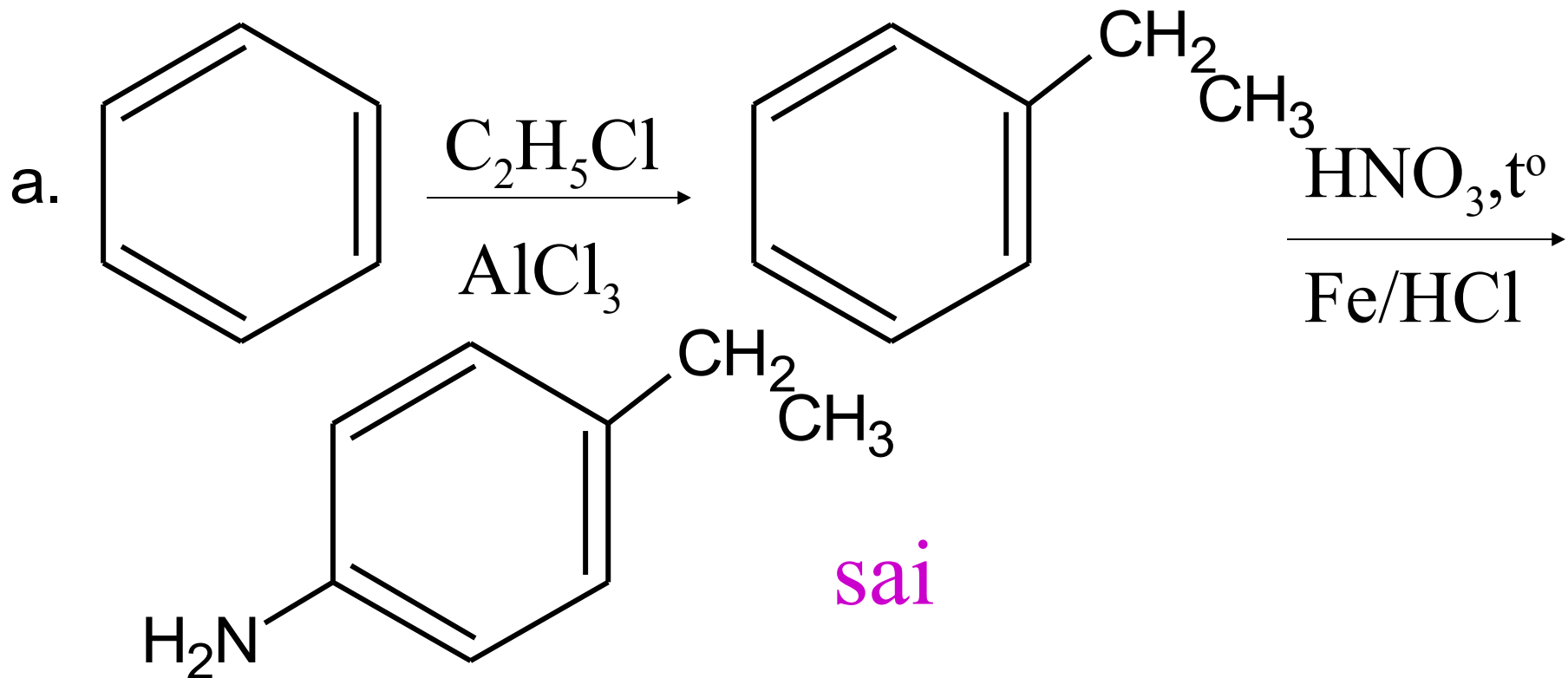
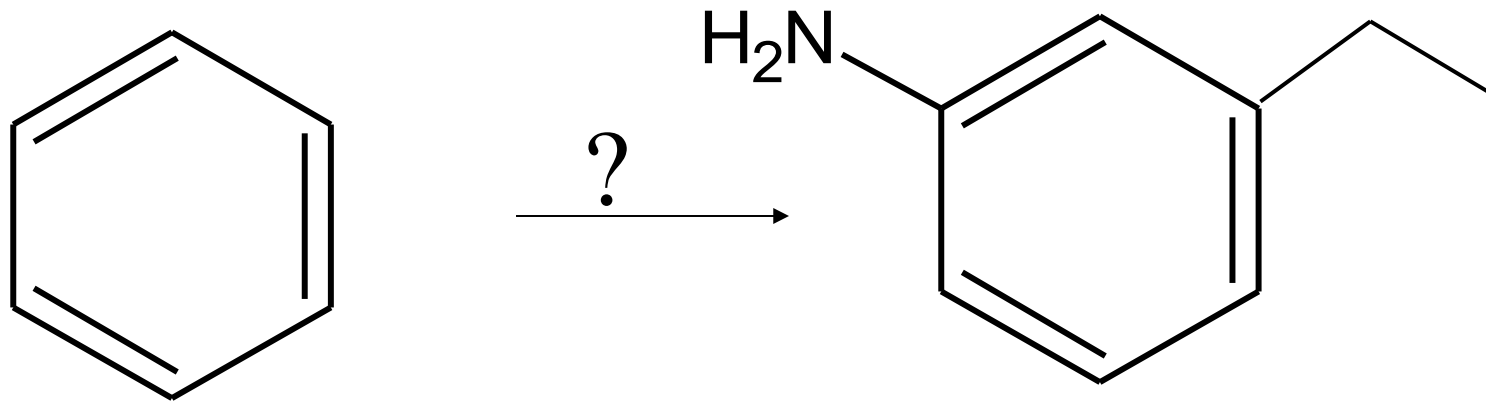
(d) 1,1,3

## 6. Phản ứng Gabriel dùng để tổng hợp:

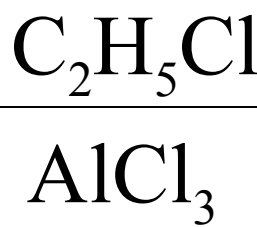
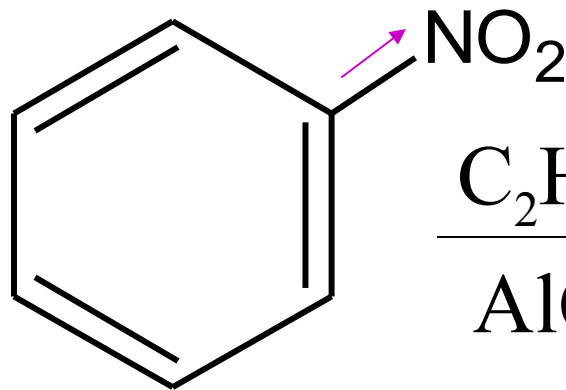
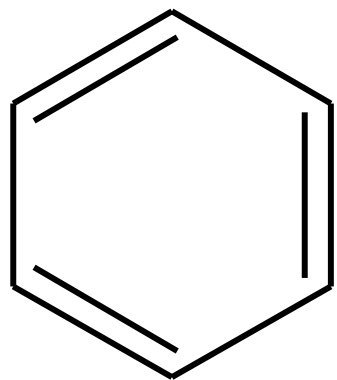




# 7. Quy trình chuyển hóa?

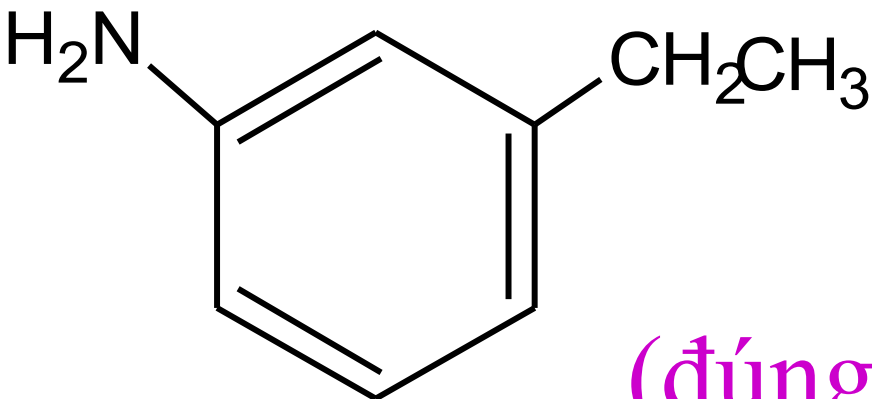
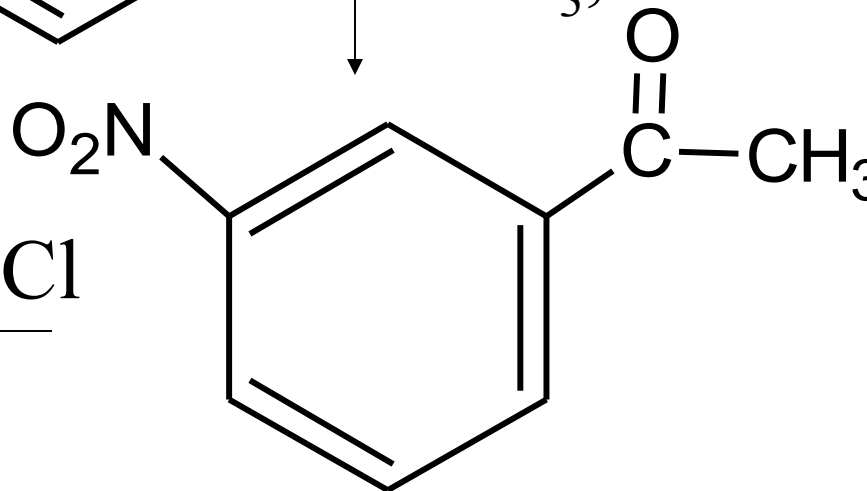
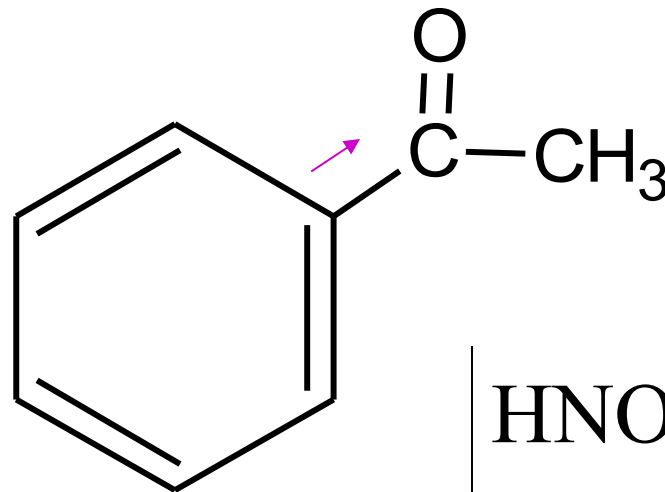
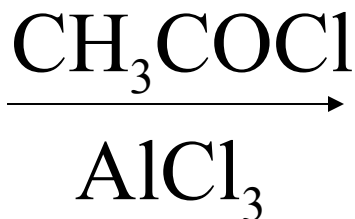
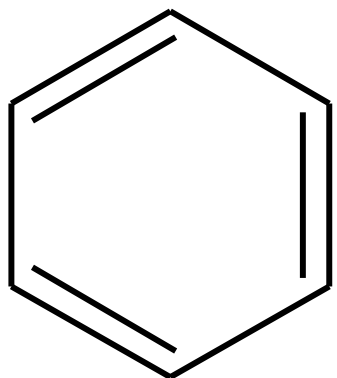


b.



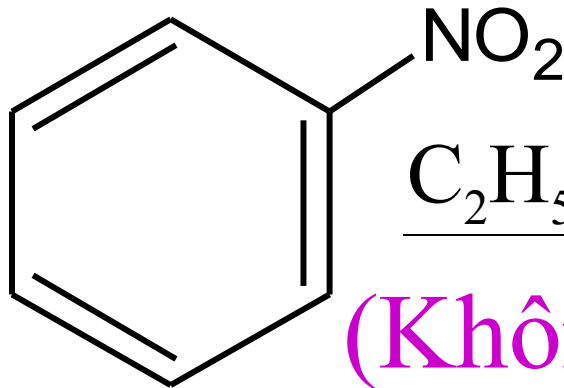
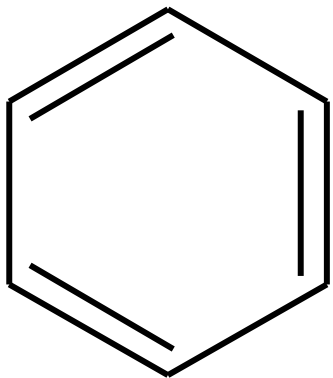
Không  
pư(sai)

c.



(đúng)

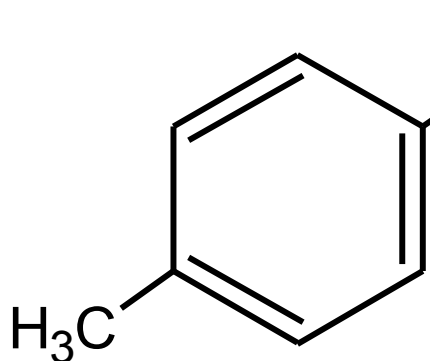
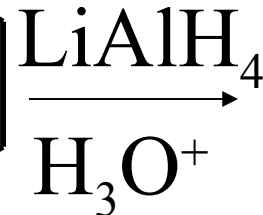
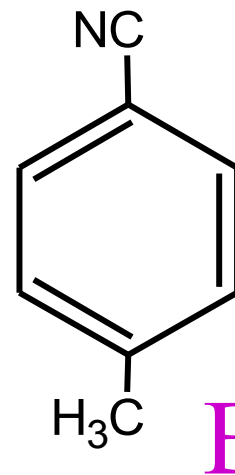
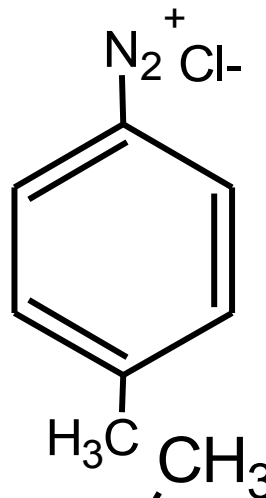
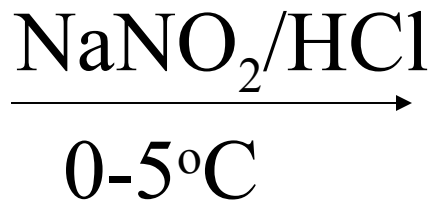
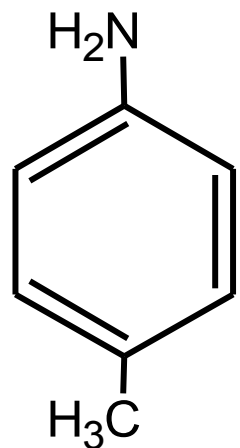
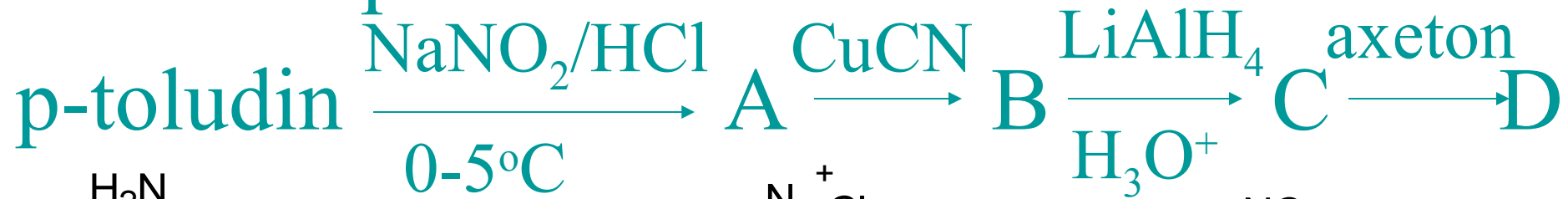
d.



(Không pư)

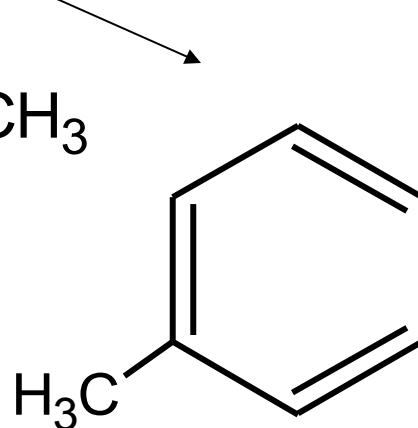
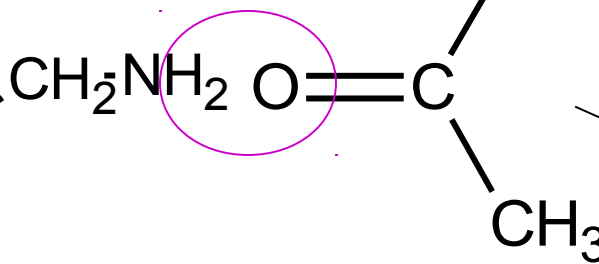
(c)

## 8. Bỏ túc pư:



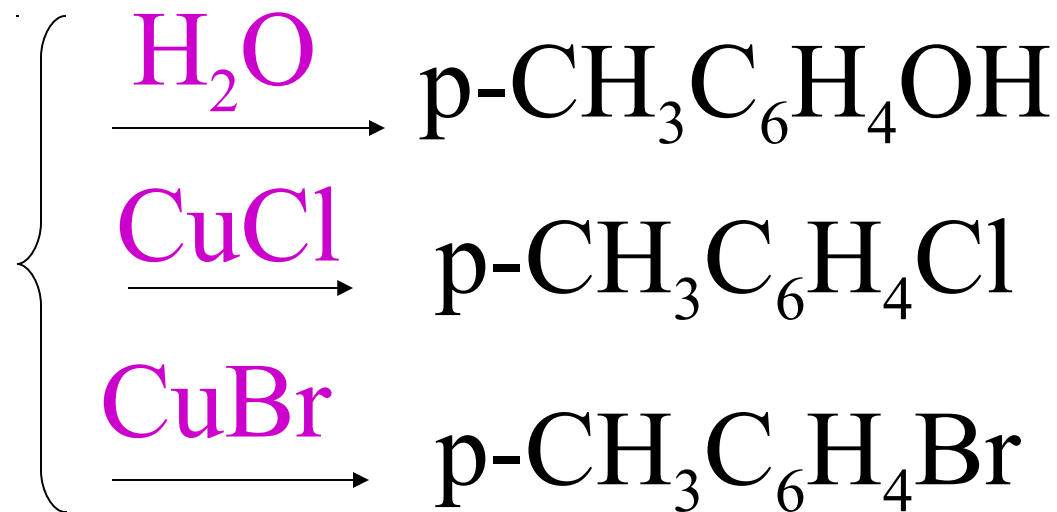
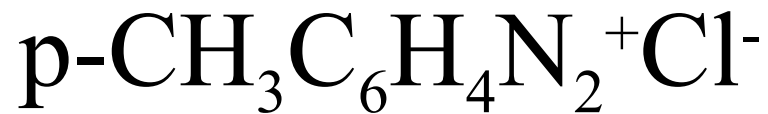
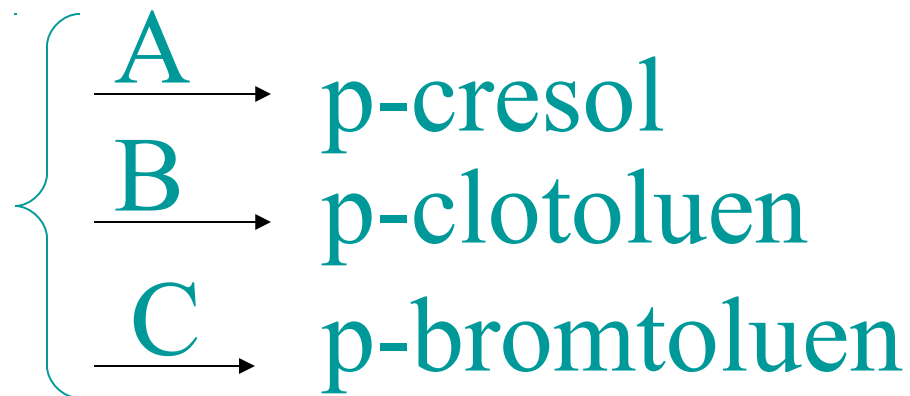
**C**

(a)



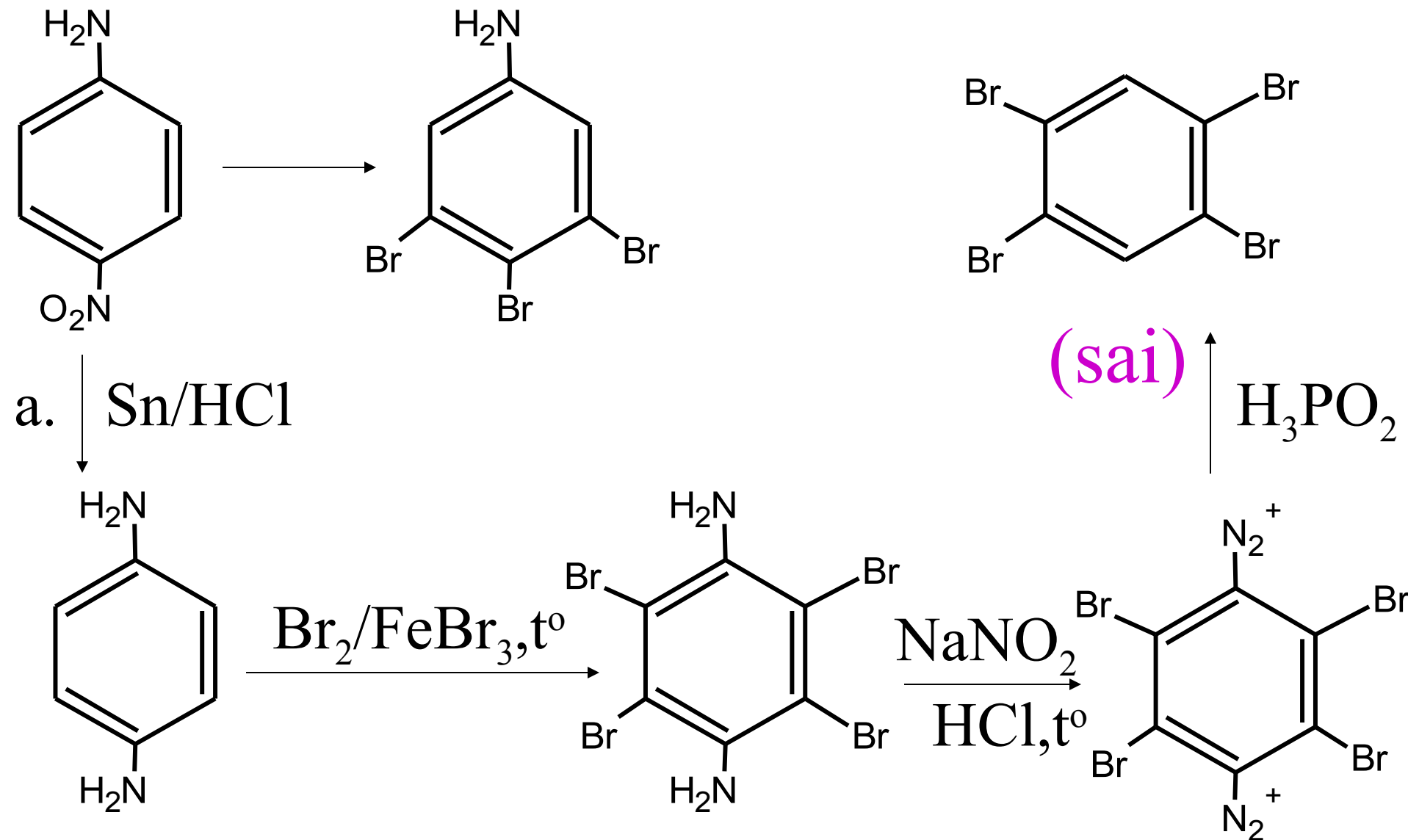
**D**

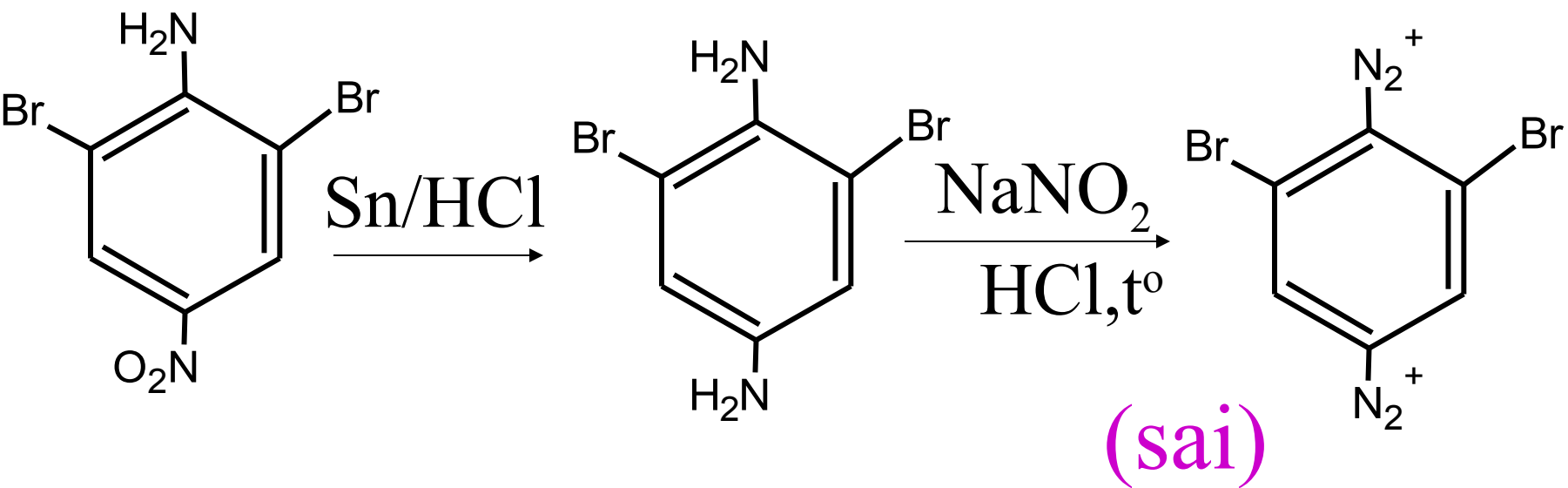
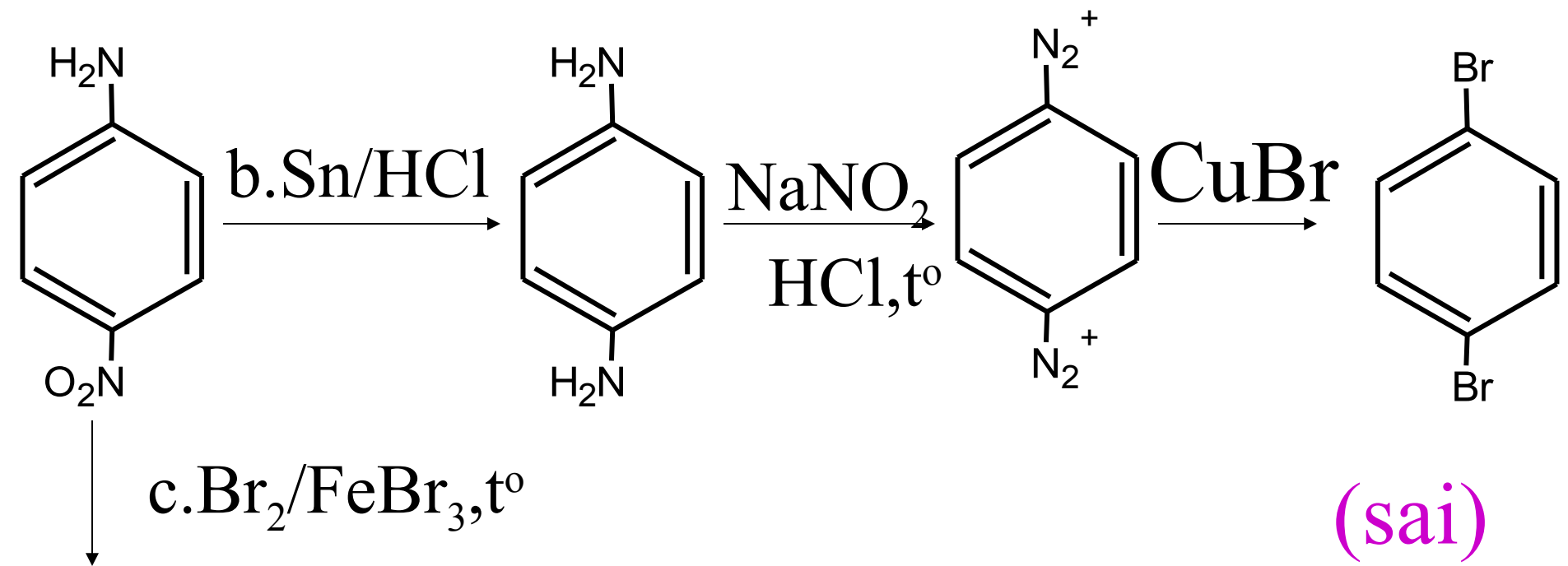
9. Thực hiện pư:

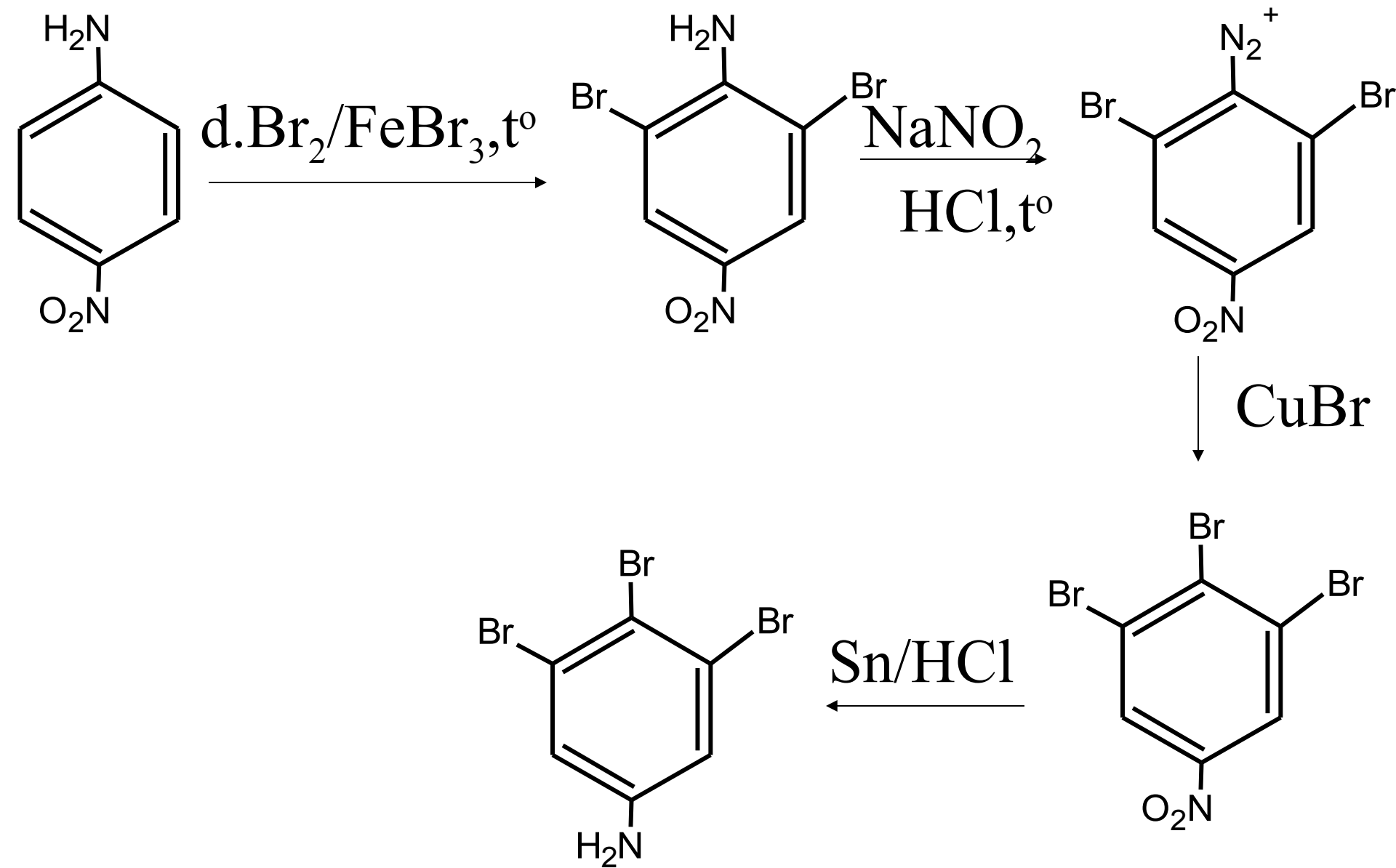


(a)

# 10. Điều chế 3,4,5-tribromanilin từ p-nitroanilin nên chọn qui trình nào?



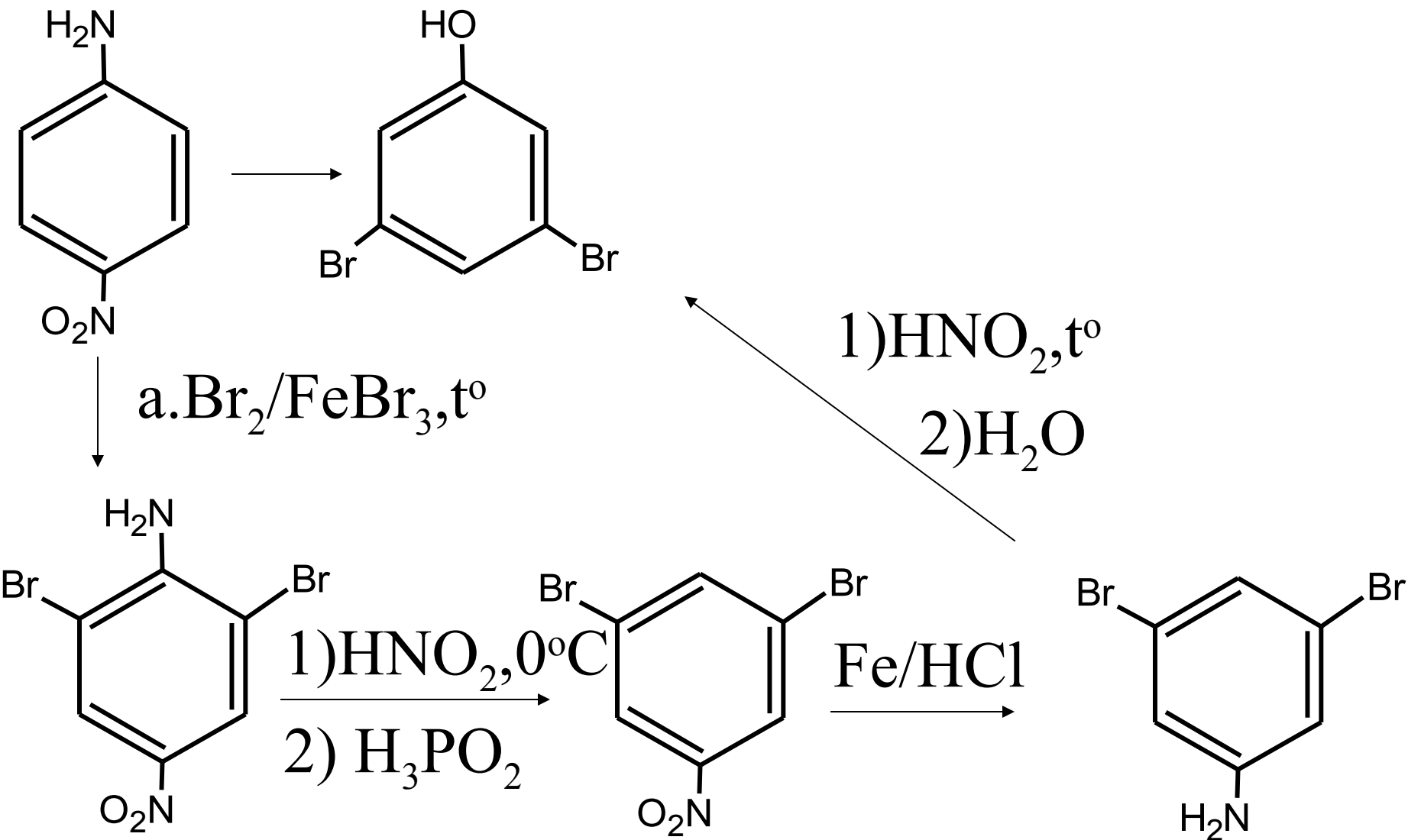


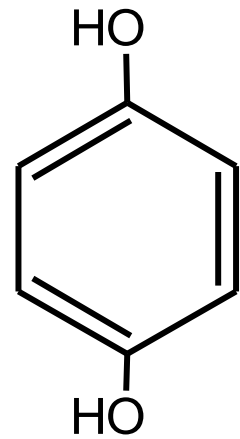
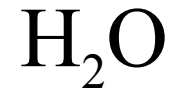
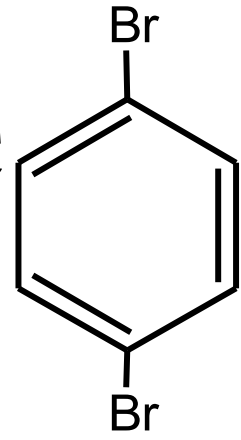
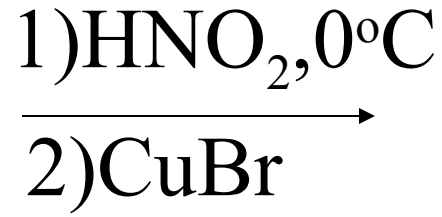
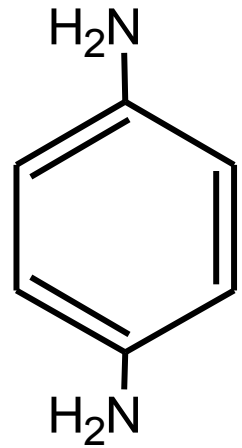
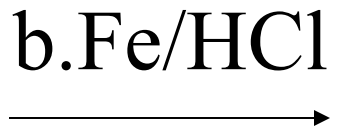
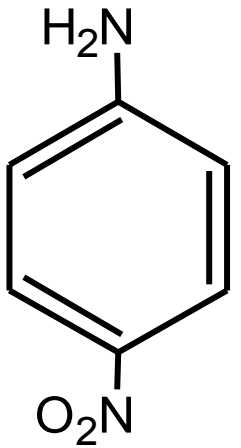


(d)

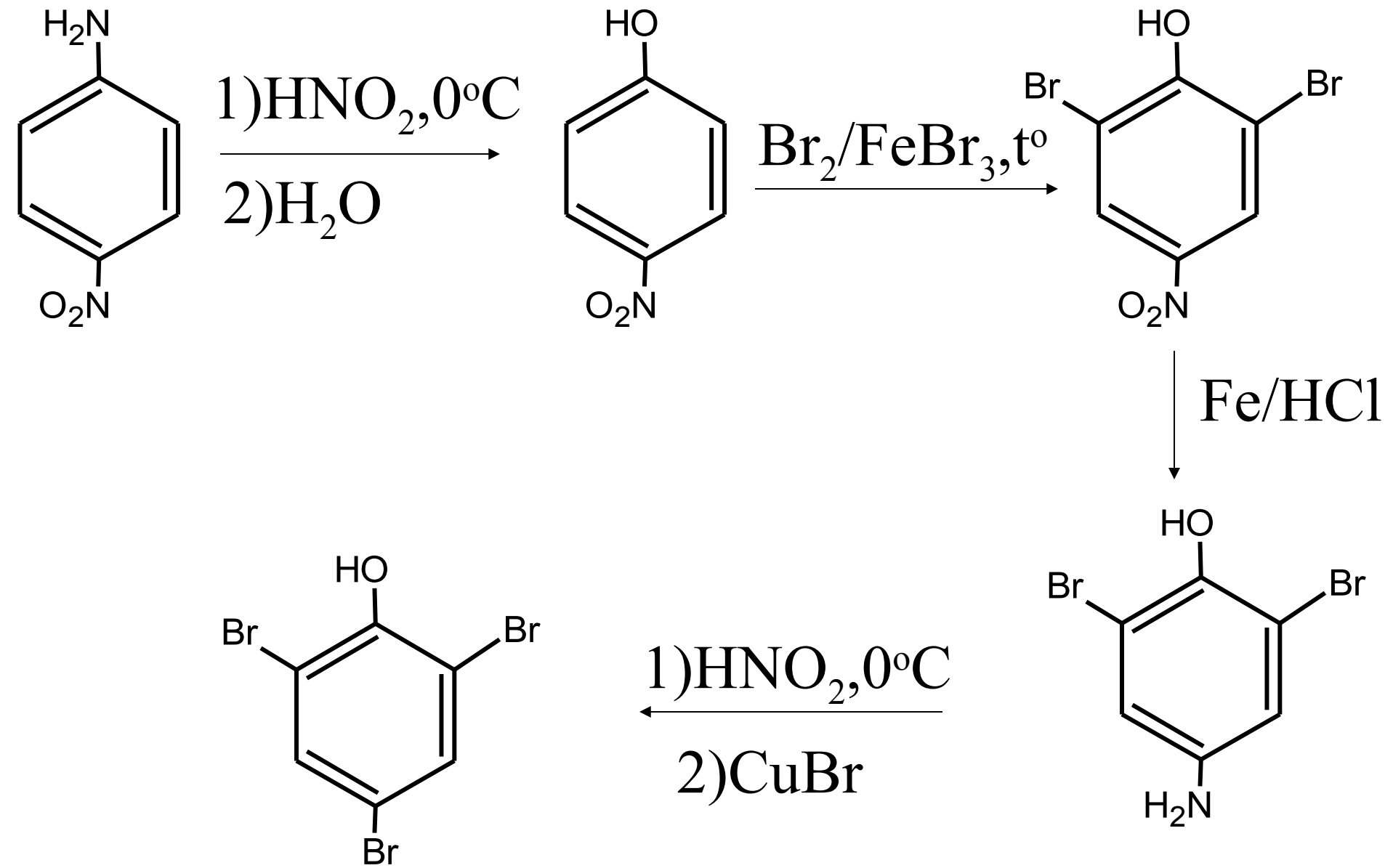


# 11. Từ p-nitroanilin đc 3,5-dibromphenol

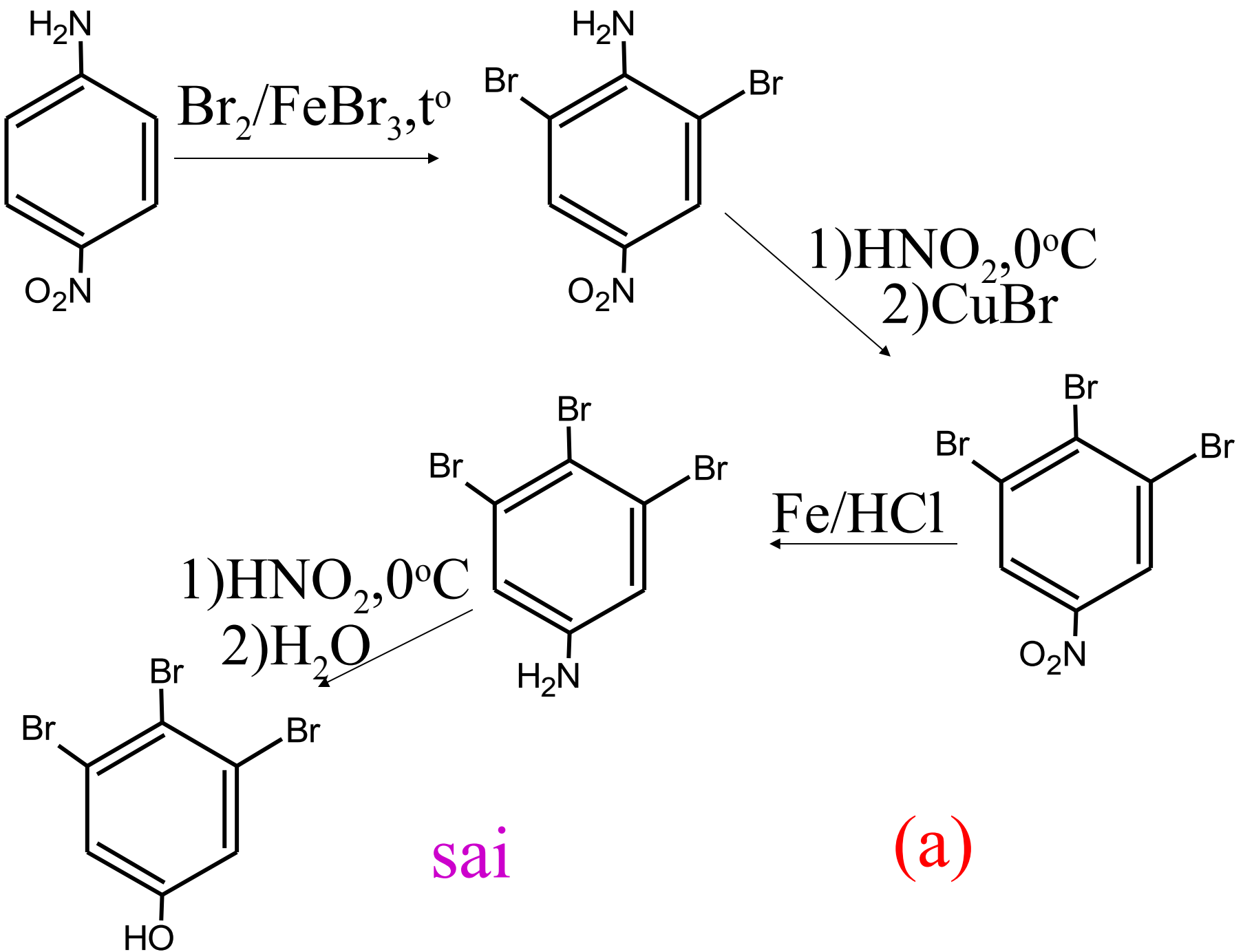




sai



sai



12. Để điều chế m-clobrombenzen từ benzen phải dùng các tác chất nào sau đây:

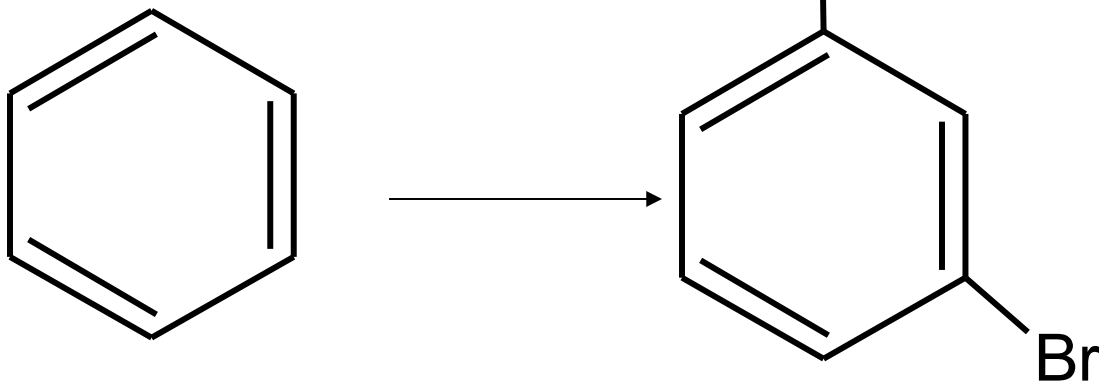
1.  $\text{H}_2\text{SO}_4$  đđ                      2.  $\text{Cl}_2/\text{FeCl}_3, t^\circ$                       3.

$\text{NaNO}_2/\text{HCl}, 0^\circ\text{C}$                       4.  $\text{Sn}/\text{HCl}$                       5.

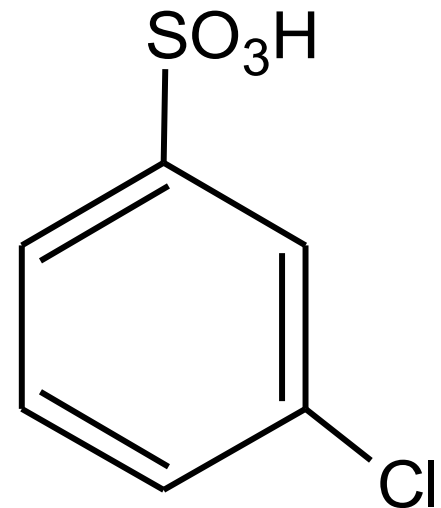
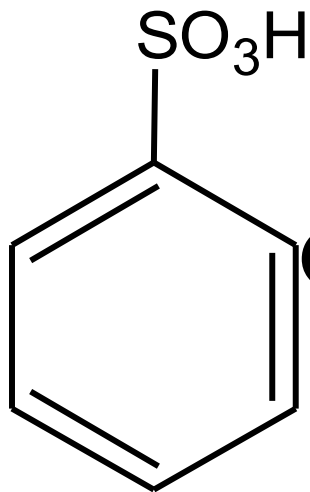
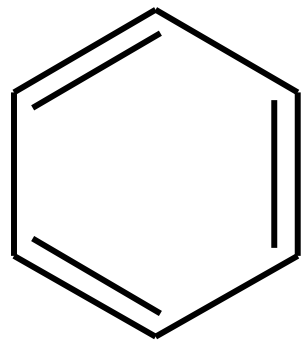
$\text{Mg}/\text{ete khan}$                       6.  $\text{PBr}_3$                       7.

$\text{H}_3\text{PO}_2$                       8.  $\text{HNO}_3/\text{H}_2\text{SO}_4$  đđ                      9.

$\text{CuBr}$                       10.  $(\text{CH}_3\text{CO})_2\text{O}$

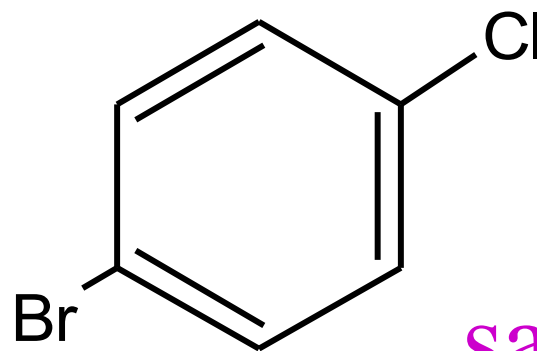
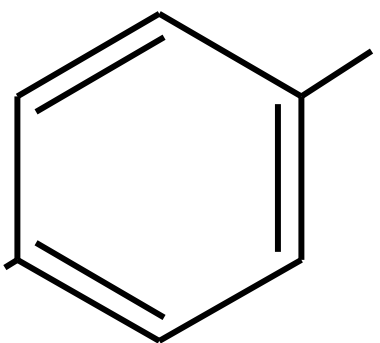
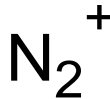
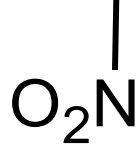
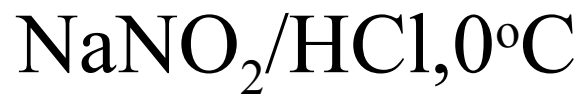
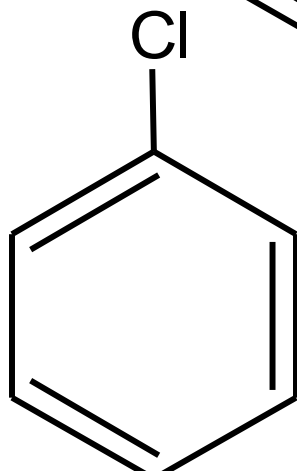
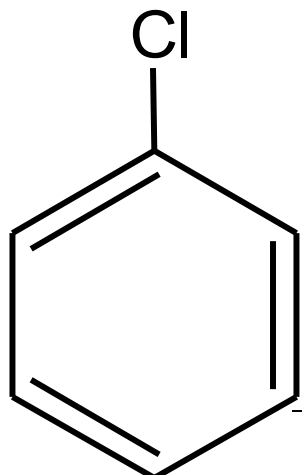
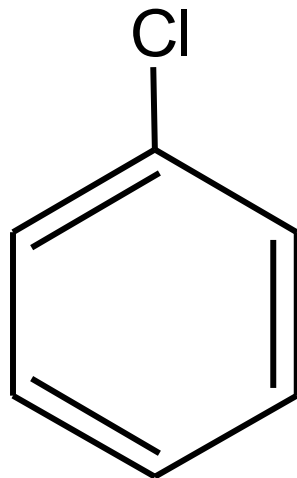
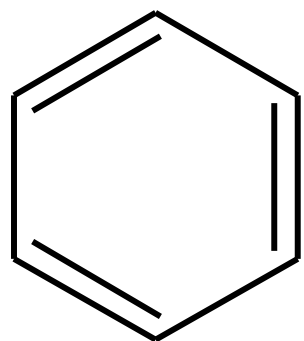


a. 1,2,6

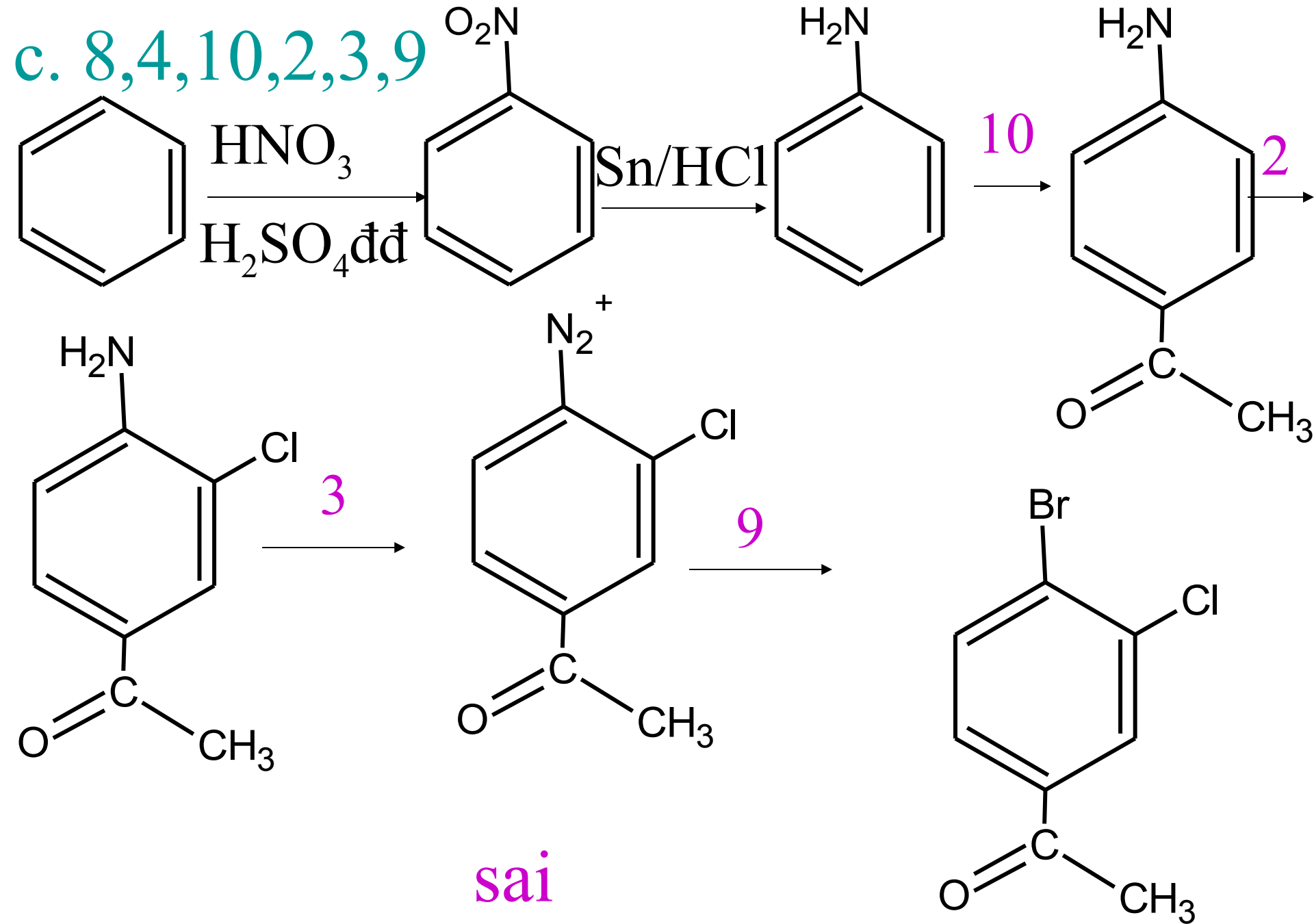


sai

b.2,8,4,3,9

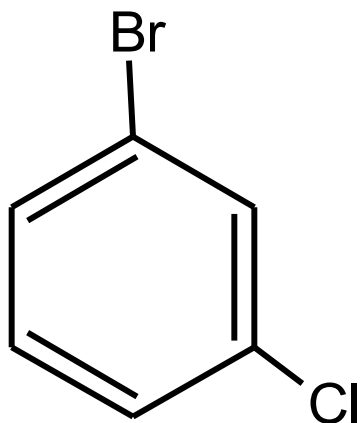
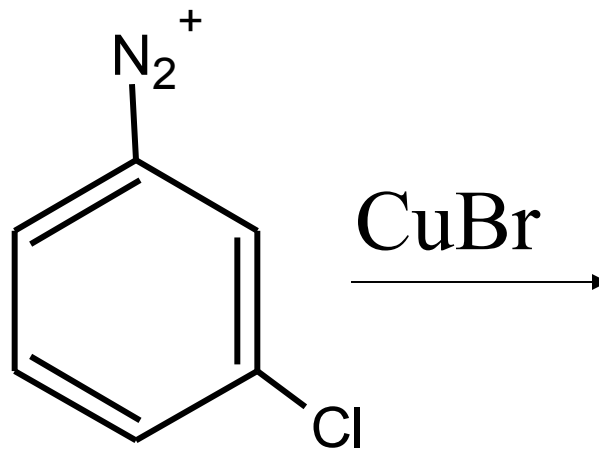
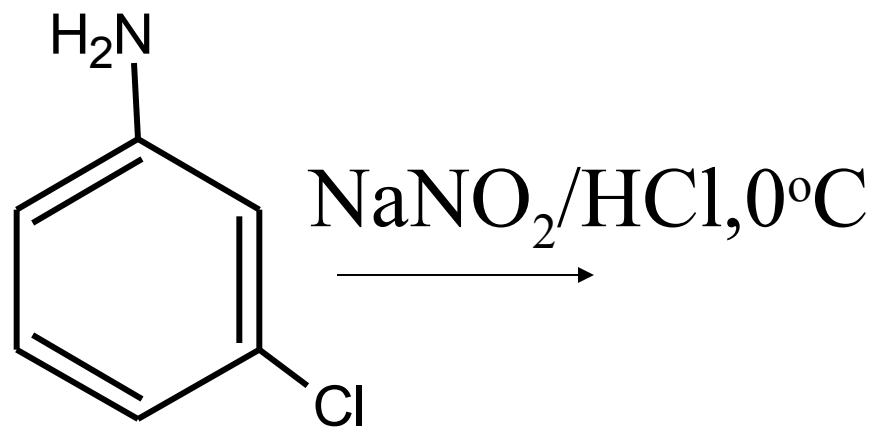
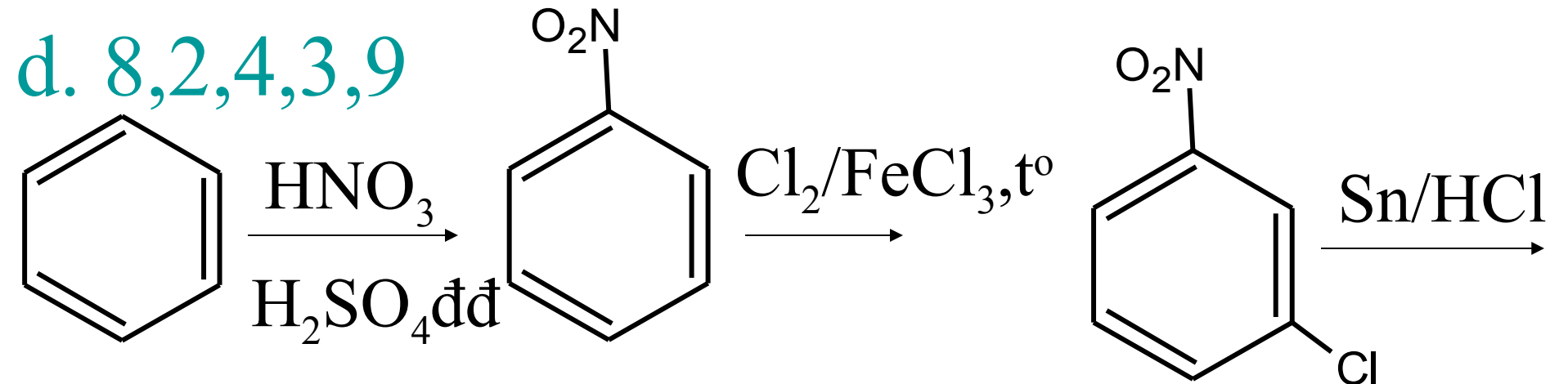


sai





d. 8,2,4,3,9



đúng

(d)

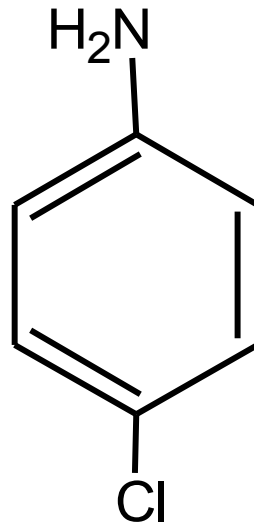
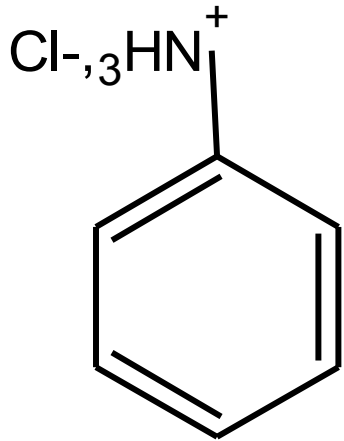
# 13. Phân biệt: clorur anlinium và p-cloanilin

a. H<sub>2</sub>O

b. Dd HCl loãng

c. a,b đều được

d. a,b đều không được



Câu a

14. Phân biệt:  $p\text{-CH}_3\text{C}_6\text{H}_4\text{NH}_3^+, \text{Cl}^-$  và  $p\text{-CH}_3\text{C}_6\text{H}_4\text{NH}_2$

a.  $\text{H}_2\text{O}$

b. Dd  $\text{HCl}$

c. Dd  $\text{NaOH}$

d. a, c đều được

