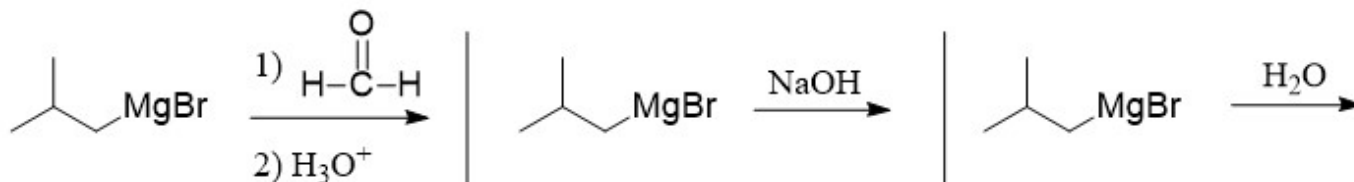
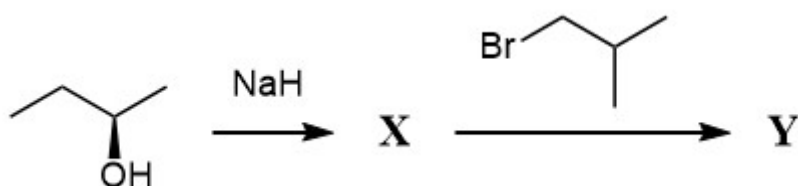




1 Predict the major products for the following reactions.

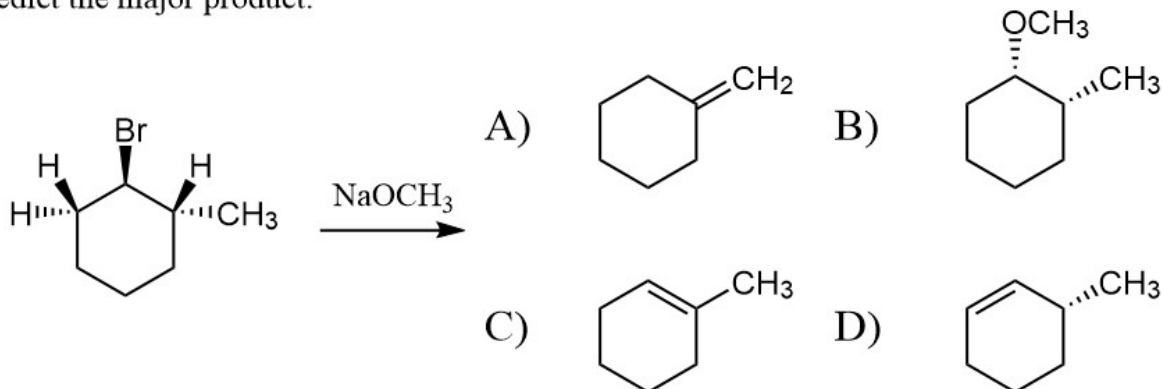


2 Predict the major products formed (X, Y).

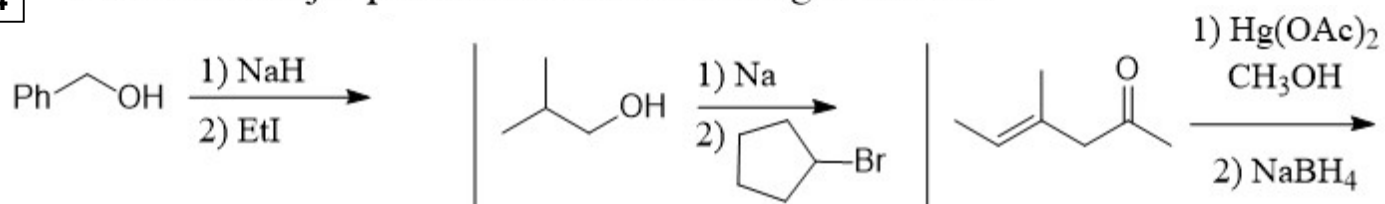


3

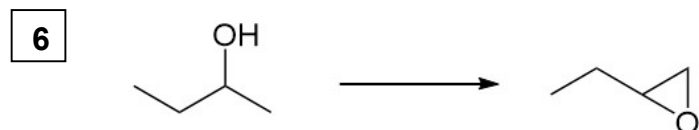
Predict the major product.



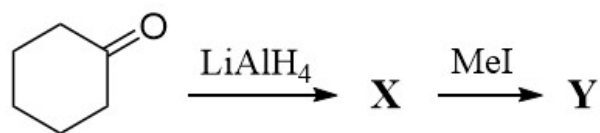
4 Predict the major products for the following reactions.



5 Which reagents would be best to achieve the following synthesis?

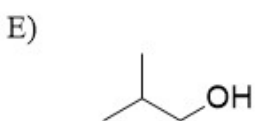
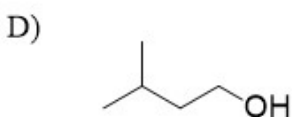
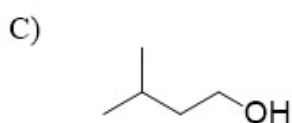
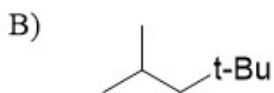
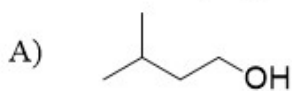
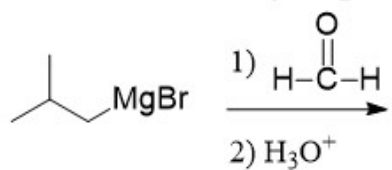


7 Predict the major products formed (X, Y).

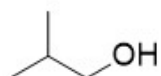
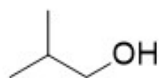
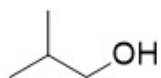


1

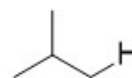
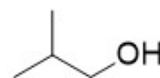
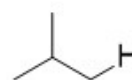
Predict the major products for the following reactions.



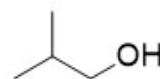
No Reaction



No Reaction

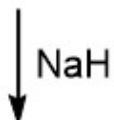
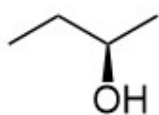


No Reaction

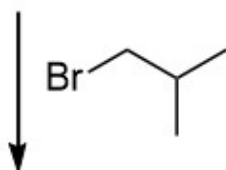


2

Predict the major products formed (X, Y).

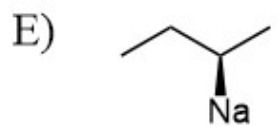
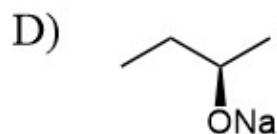
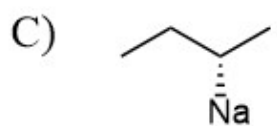
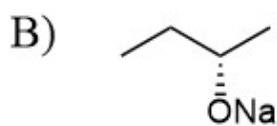
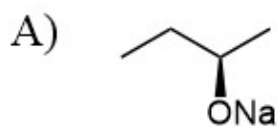


X

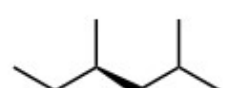
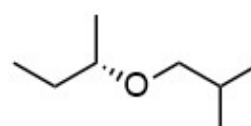
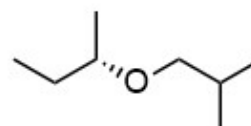
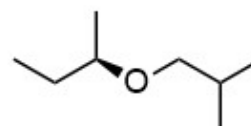


Y

X

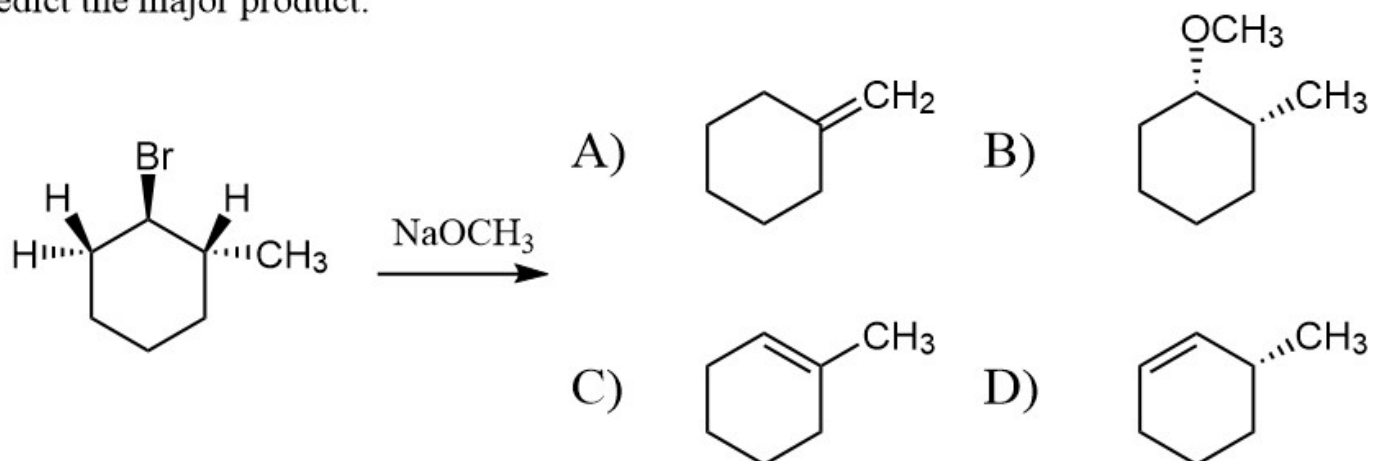


Y



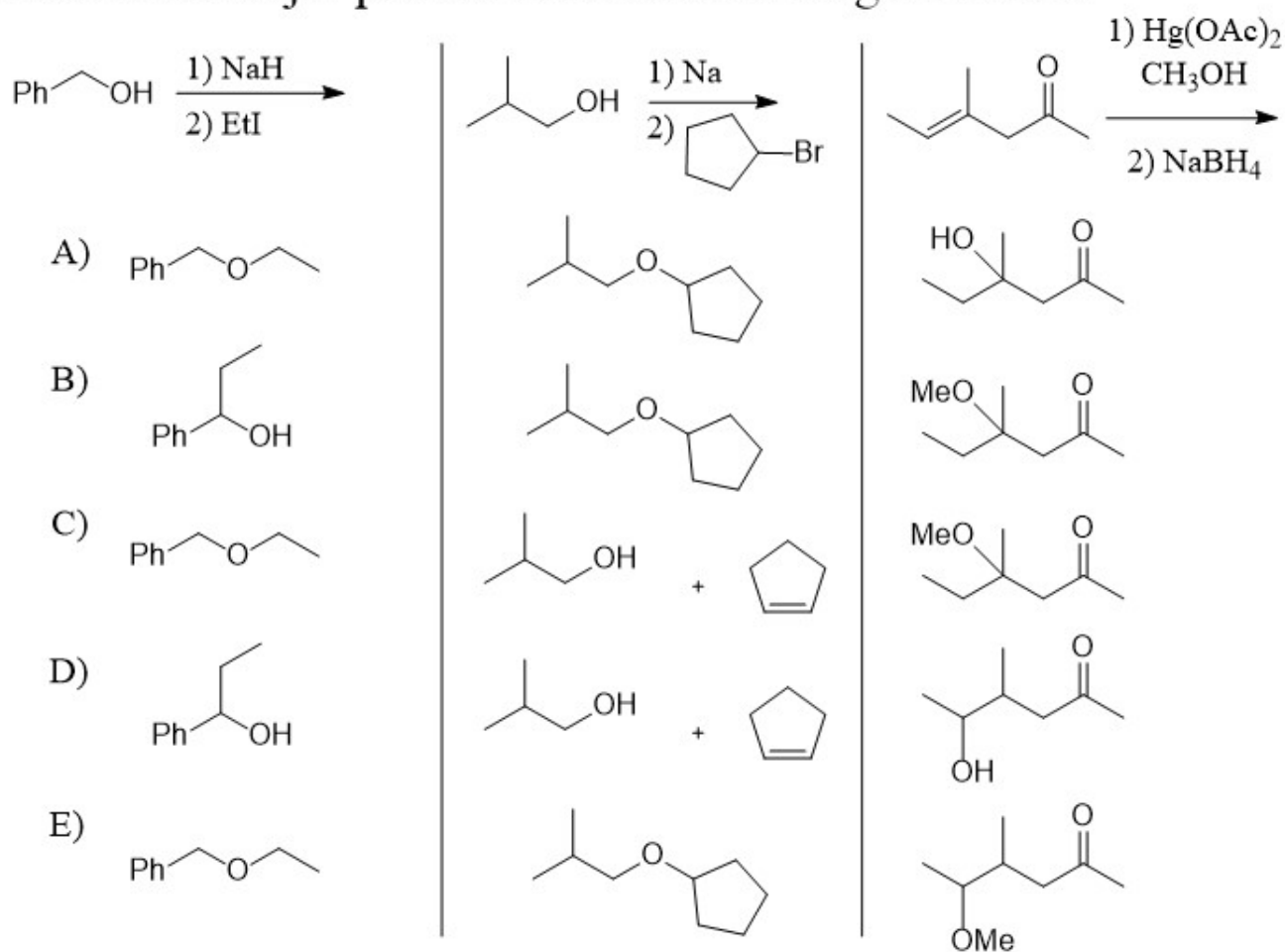
3

Predict the major product.



4

Predict the major products for the following reactions.



5

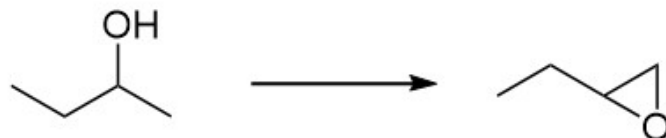
Which reagents would be best to achieve the following synthesis?



- A) 1) BH_3 -THF
2) H_2O_2 , NaOH
3) EtONa
- B) 1) HBr, ROOR
2) EtBr
- C) 1) $\text{Hg}(\text{OAc})_2$, EtOH
2) NaBH_4
- D) 1) HBr
2) EtONa
- E) 1) BH_3 -THF
2) H_2O_2 , NaOH
3) NaH
4) EtBr

6

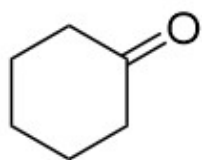
Which reagents would be best to achieve the following synthesis?



- A) 1) *t*-BuOK
2) Br_2 , H_2O
3) NaH
- B) 1) H_2SO_4 , heat
2) Br_2 , H_2O
3) NaH
- C) 1) TsCl, py
2) *t*-BuOK
3) MCPBA
- D) 1) *t*-BuOK
2) RCO_3H
- E) 1) H_2SO_4 , heat
2) MCPBA

7

Predict the major products formed (**X**, **Y**).



X



Y

X

Y

