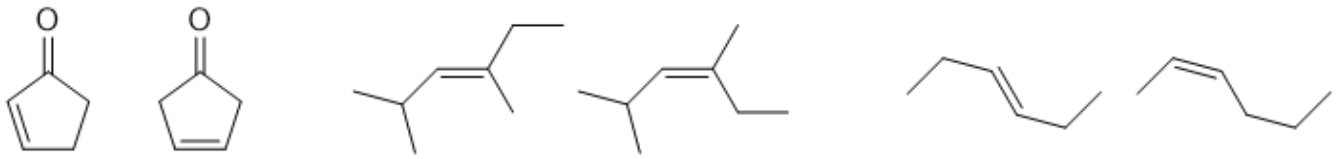
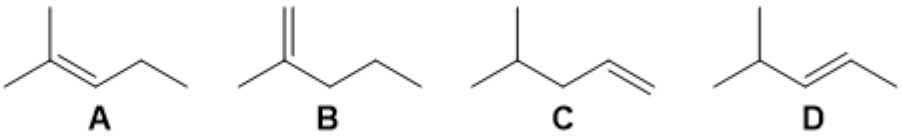
Select the more stable alkene in each pair of compounds.

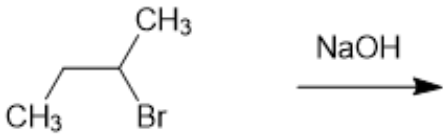
1



2 Arrange alkenes from most stable to least stable:



3 Example:



E2 mech.

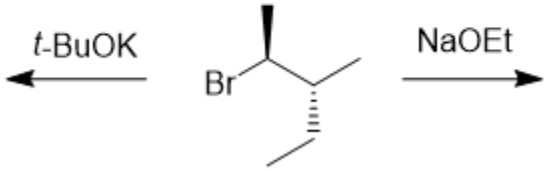
"eliminate" or lose β-hydrogen and LG (– HBr called dehydrohalogenation)

Group work: draw a Transition State for E2 reaction given above.

4

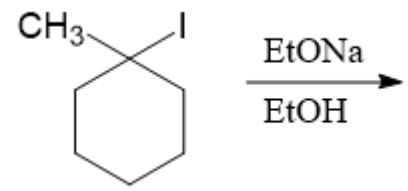
5

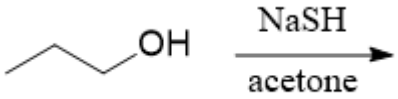
Group work: predict the major product for the following E2 elimination reactions. Consider both regiochemistry and stereochemistry.



In each case, determine the mechanism (S_N2, E2 or N.R.) and predict the major product(s).

6





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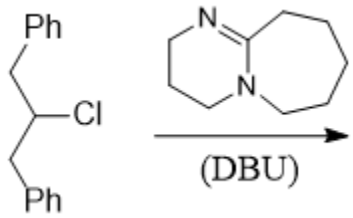

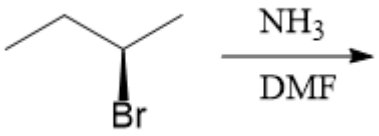

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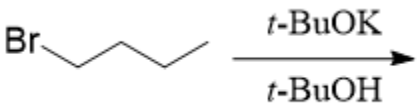
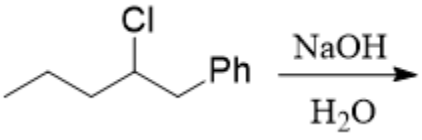
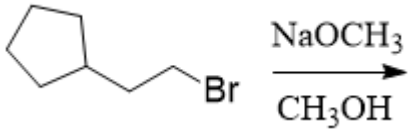
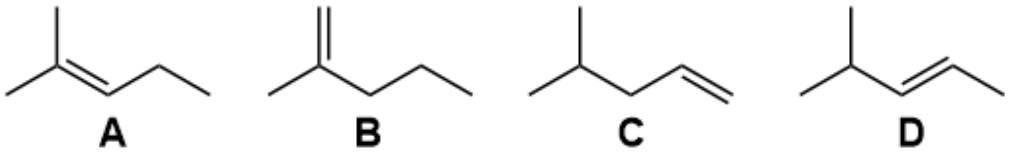






2 Arrange the following alkenes from MOST stable to LEAST stable.



A) B > D > C > A

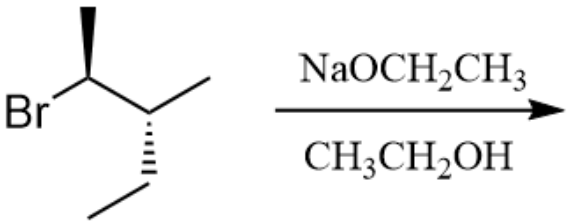
B) A > D > B > C

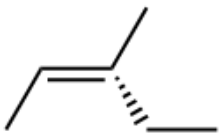
C) D > A > B > C

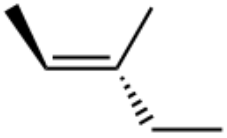
D) D > A > C > B

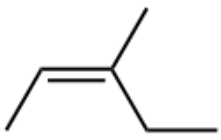
E) A > B > D > C

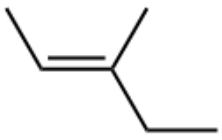
4 Predict the major product.

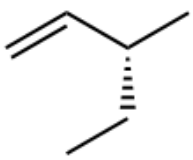


A) 

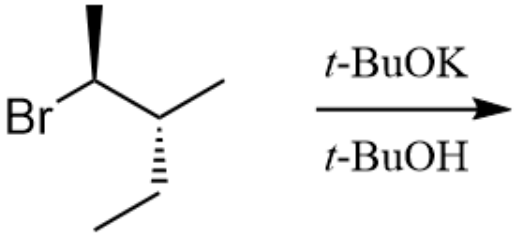
B) 

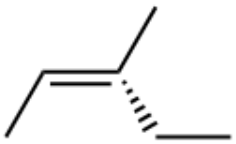
C) 

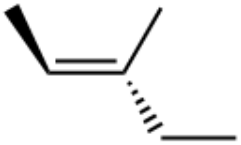
D) 

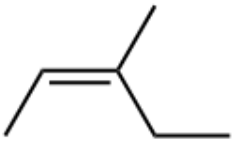
E) 

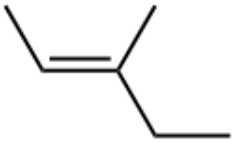
5 Predict the major product.

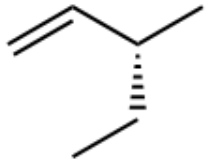


A) 

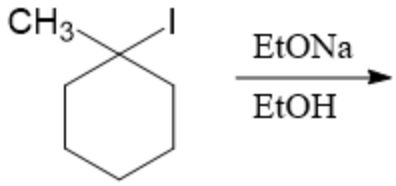
B) 

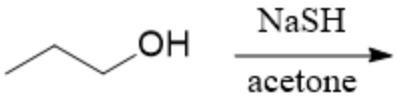
C) 

D) 

E) 

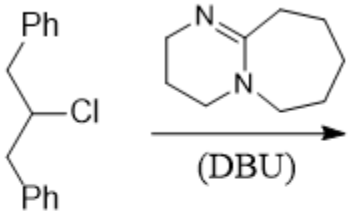
6 Predict the major products for the following reactions.

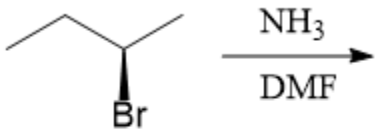




A)	E2	S_N2
B)	S_N2	N.R.
C)	E2	E2
D)	E2	N.R.
E)	S_N2	S_N2

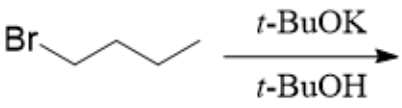
7 Predict the major products for the following reactions.

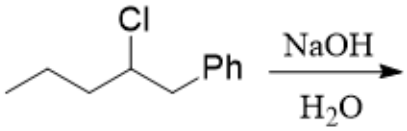


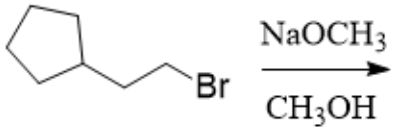


A)	S_N2	S_N2
B)	S_N2	N.R.
C)	E2	E2
D)	N.R.	E2
E)	E2	S_N2

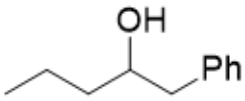
8 Predict the major products for the following reactions.

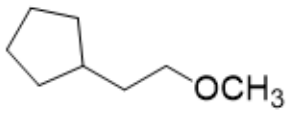


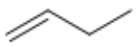
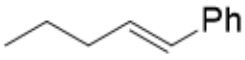


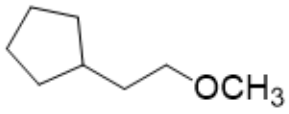


A)





B) 




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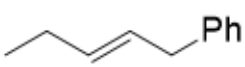
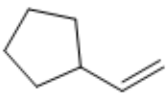
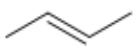
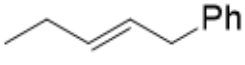
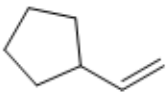




D) 




E)