

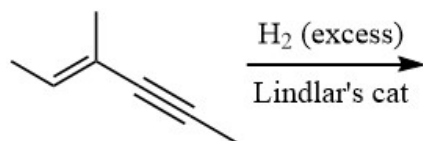
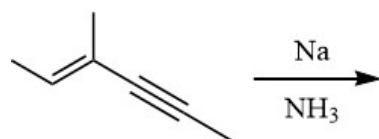
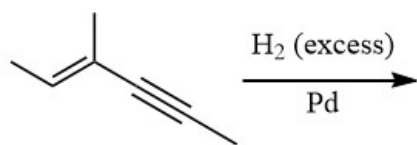
Dr. Starkey, CHM 3140 Organic Chem. I, Cal Poly Pomona  
Chapter 9 Alkyne Reactions, Part 1 – [Practice Problems](#)

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LAURIESTARKE263 to 37607



Predict the major products for the following reactions.

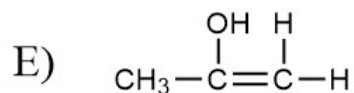
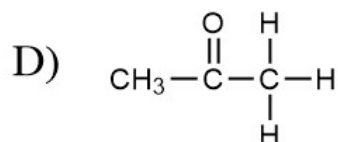
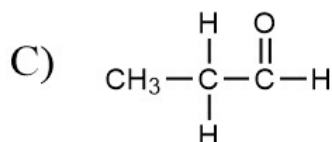
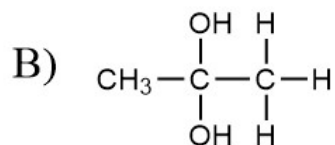
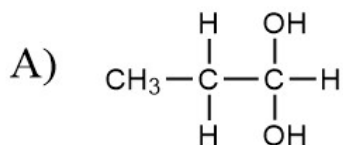
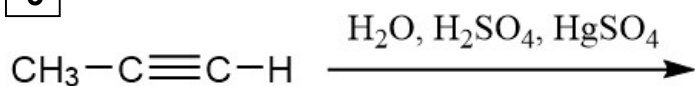
1



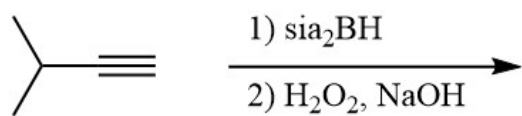
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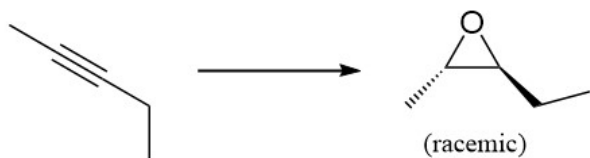
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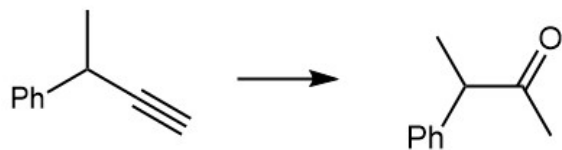
4 Predict the major product



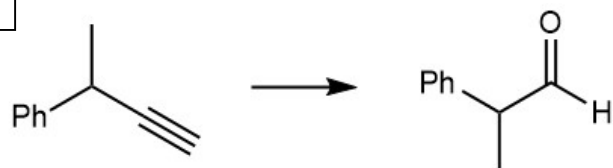
5 Which reagents would be best to achieve the following synthesis?



6

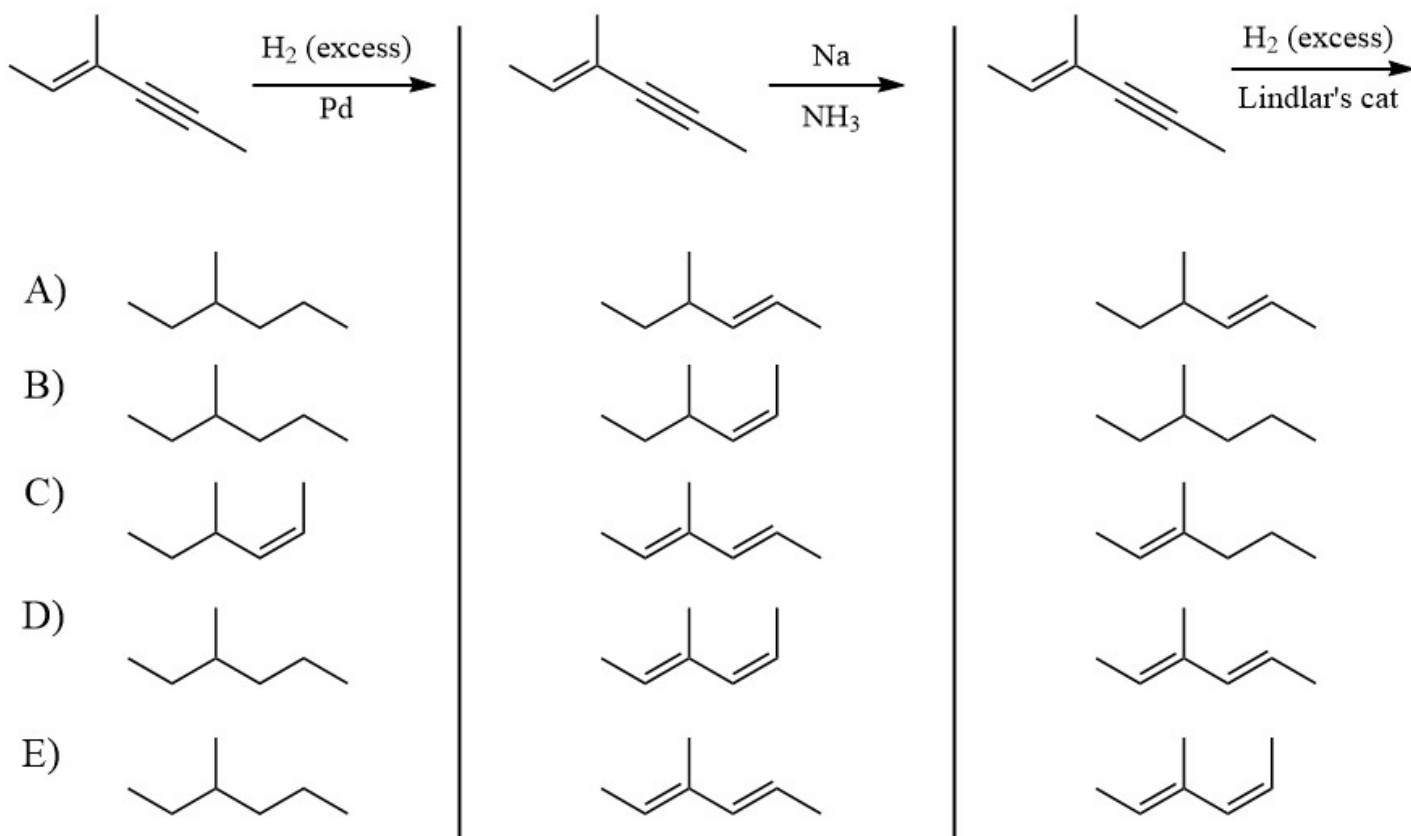


7



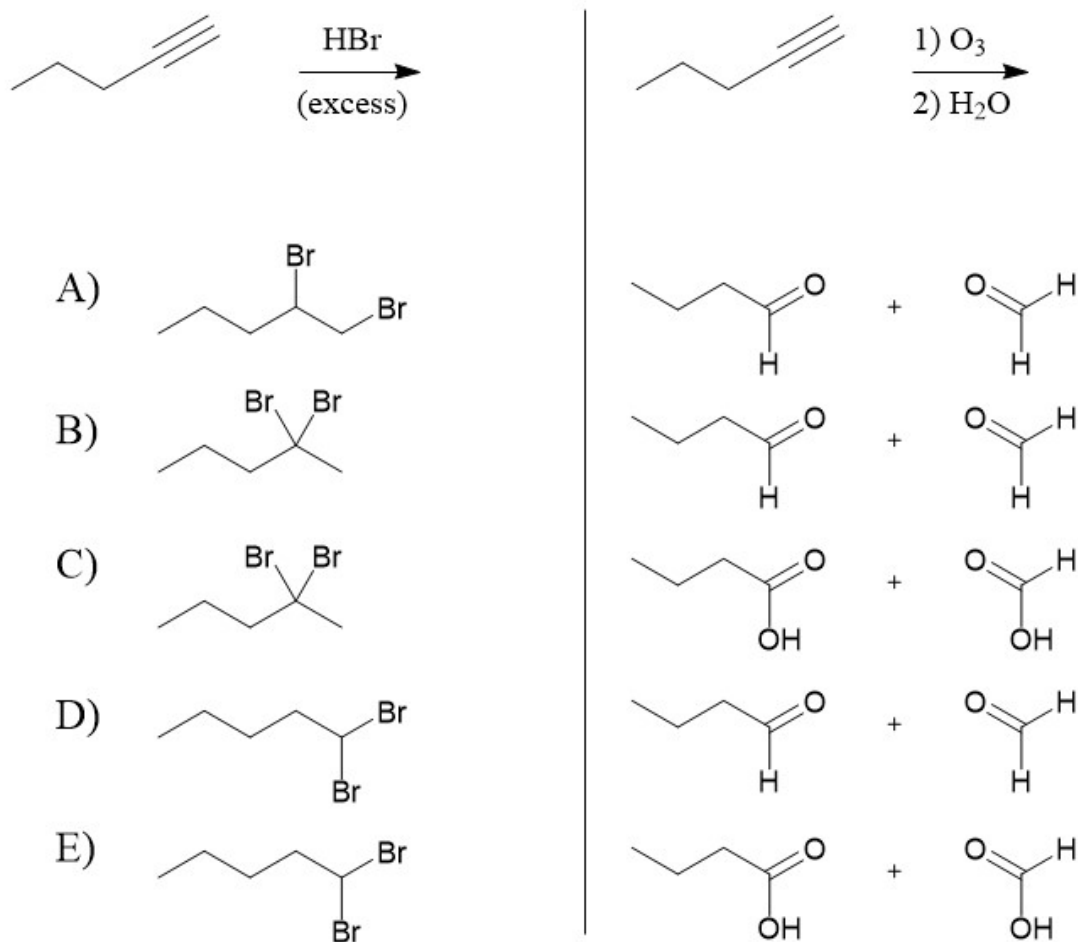
Predict the major products for the following reactions.

1



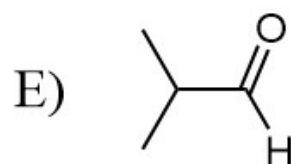
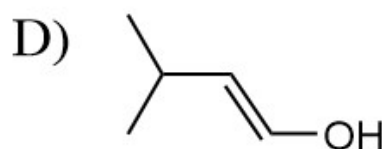
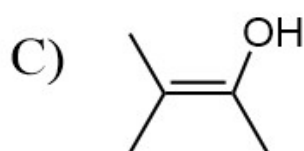
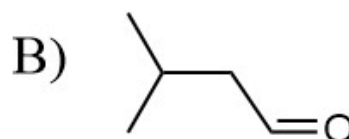
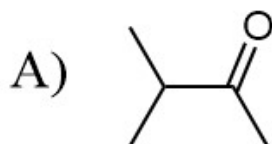
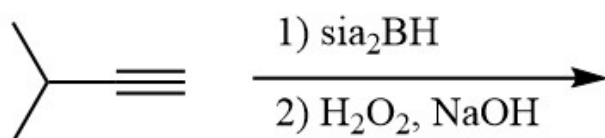
2

Predict the major products for the following reactions.



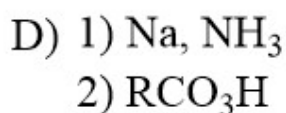
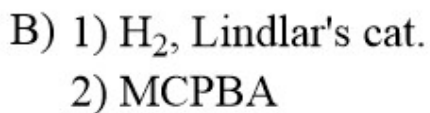
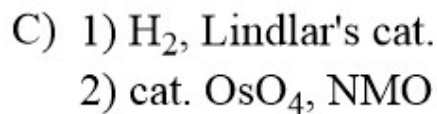
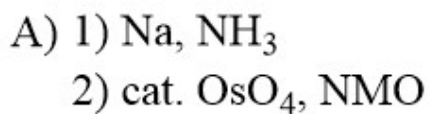
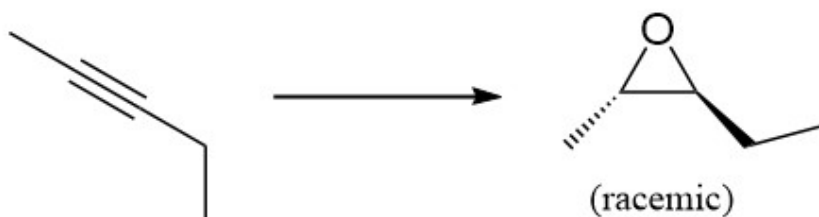
4

Predict the major product.



5

Which reagents would be best to achieve the following synthesis?



6

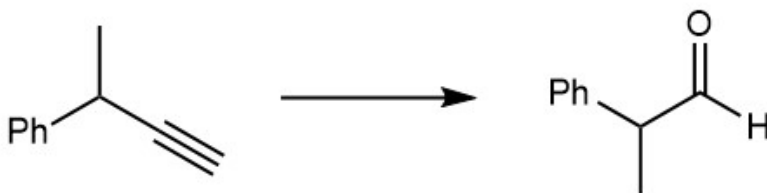
Which is the best set of reagents to accomplish the following transformation?



- A) 1)  $\text{H}_2$ , Lindlar's cat.  
2)  $\text{H}_2\text{SO}_4$ ,  $\text{H}_2\text{O}$   
 $\text{HgSO}_4$
- B) 1)  $\text{H}_2$ , Lindlar's cat.  
2) 9-BBN  
3)  $\text{H}_2\text{O}_2$ , NaOH
- C) 1) 9-BBN  
2)  $\text{H}_2\text{O}_2$ , NaOH
- D)  $\text{H}_2\text{SO}_4$ ,  $\text{H}_2\text{O}$   
 $\text{HgSO}_4$
- E) 1)  $\text{H}_2$ , Lindlar's cat.  
2)  $\text{O}_3$   
3) DMS

7

Which is the best set of reagents to accomplish the following transformation?



- A) 1)  $\text{H}_2$ , Lindlar's cat.  
2)  $\text{H}_2\text{SO}_4$ ,  $\text{H}_2\text{O}$   
 $\text{HgSO}_4$
- B) 1)  $\text{H}_2$ , Lindlar's cat.  
2) 9-BBN  
3)  $\text{H}_2\text{O}_2$ , NaOH
- C) 1) 9-BBN  
2)  $\text{H}_2\text{O}_2$ , NaOH
- D)  $\text{H}_2\text{SO}_4$ ,  $\text{H}_2\text{O}$   
 $\text{HgSO}_4$
- E) 1)  $\text{H}_2$ , Lindlar's cat.  
2)  $\text{O}_3$   
3) DMS