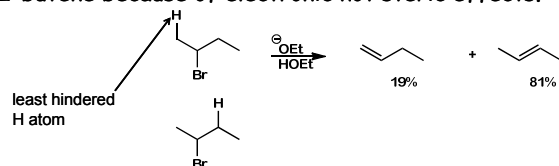


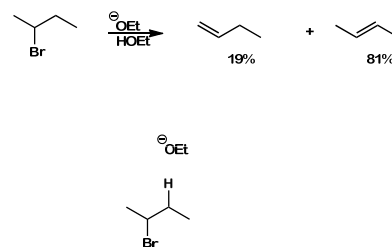
The major product of the following reaction is 2-butene because of electronic not steric effects.



- A. Very sure this is true  
 B. Somewhat sure this is true  
 C. Maybe this is true  
 D. Maybe this is false  
 E. Somewhat sure this is false  
 F. Very sure this is false

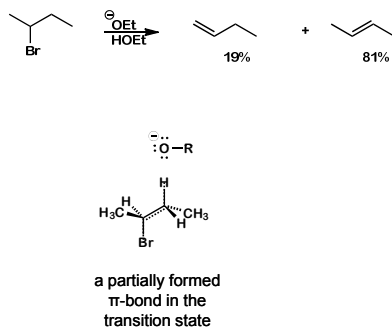
1

The major product of the following reaction is 2-butene because of electronic effects.



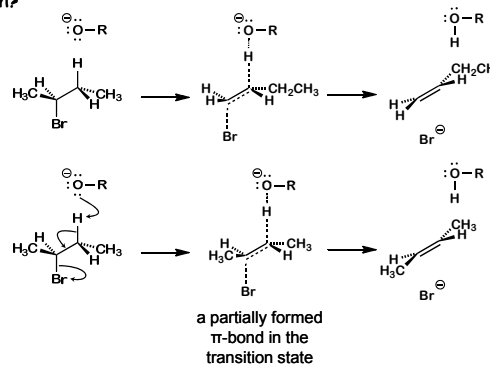
2

What is the geometry of the transition state in a E2 reaction?



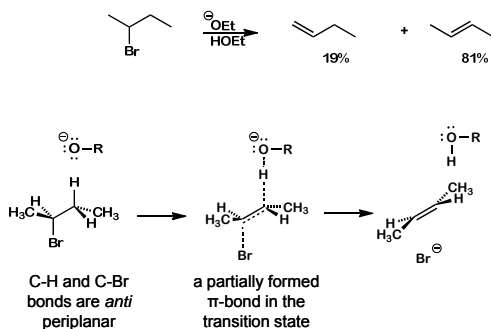
3

What are good models for the transition state of an E2 reaction?



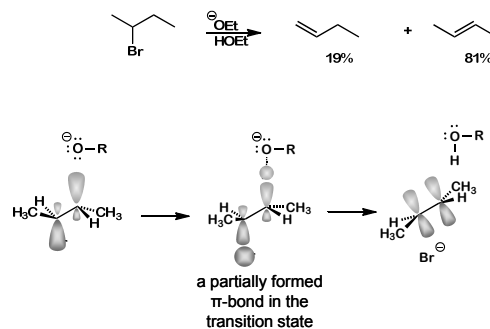
4

Why does this reaction proceed through a *anti* periplanar transition state?

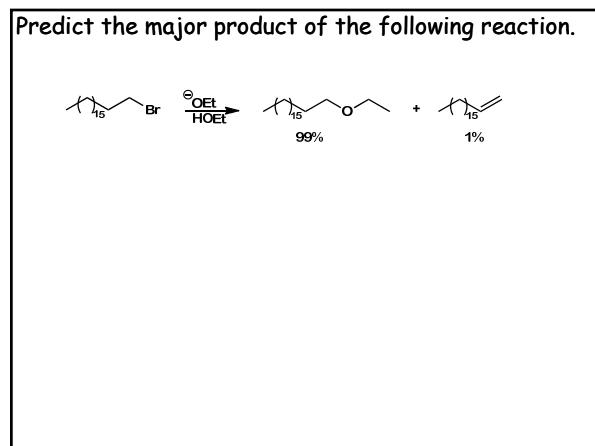
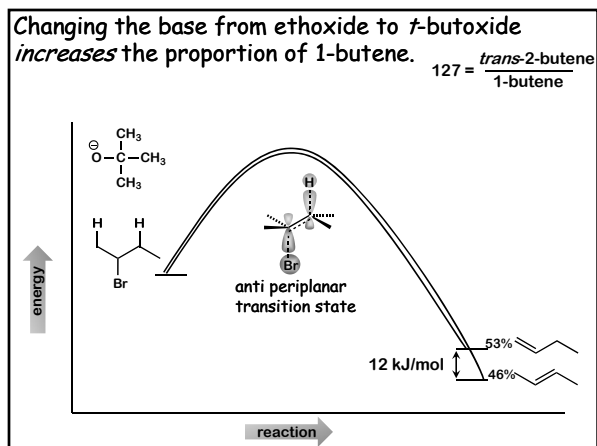
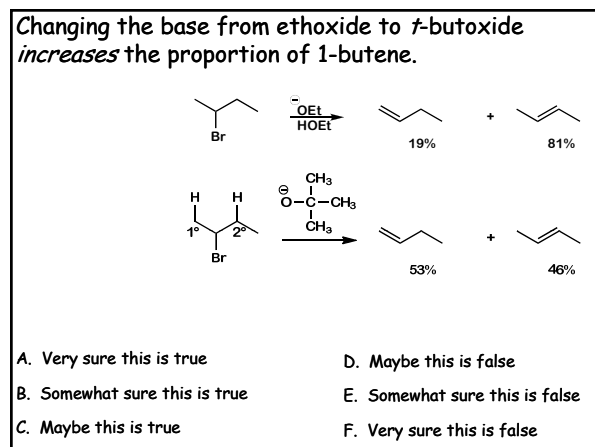
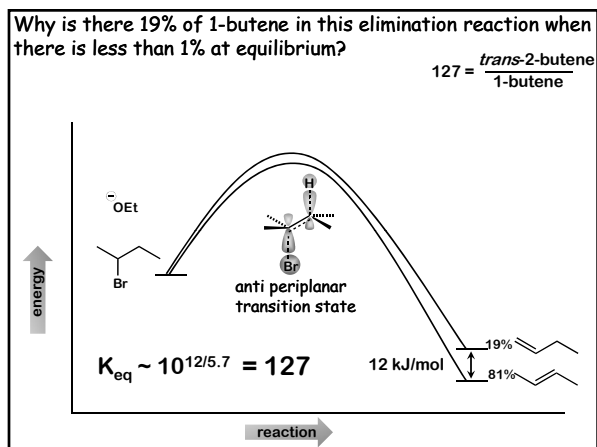
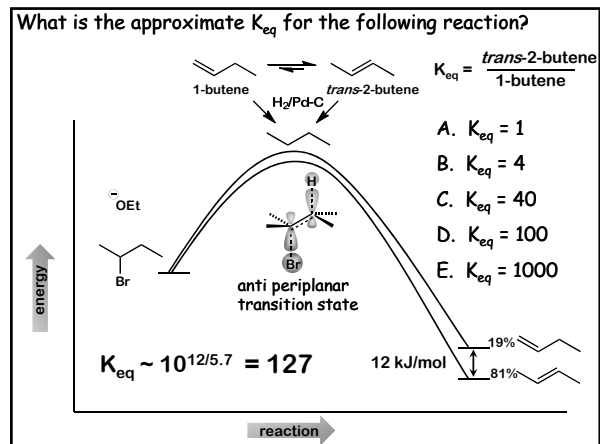
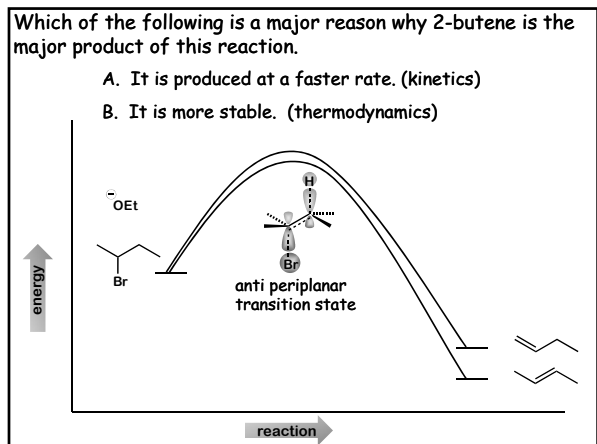


5

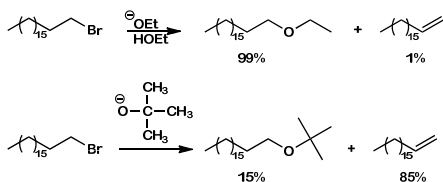
Why does this reaction proceed through a *anti* periplanar transition state?



6

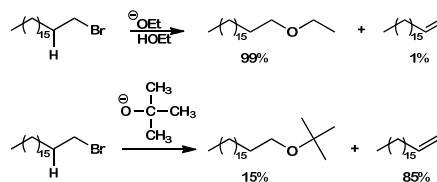


The % of alkene increases when the ethoxide base is replaced by *t*-butoxide.



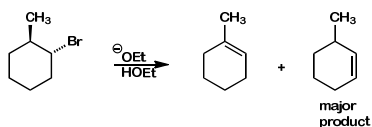
- A. Very sure this is true  
 B. Somewhat sure this is true  
 C. Maybe this is true  
 D. Maybe this is false  
 E. Somewhat sure this is false  
 F. Very sure this is false

Both the  $S_N2$  and  $E2$  reactions proceed slower when the ethoxide base is replaced by *t*-butoxide.

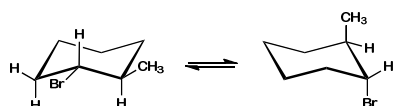


- A. Very sure this is true  
 B. Somewhat sure this is true  
 C. Maybe this is true  
 D. Maybe this is false  
 E. Somewhat sure this is false  
 F. Very sure this is false

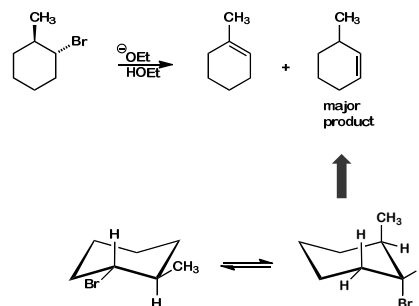
Predict the major product of the following reaction.



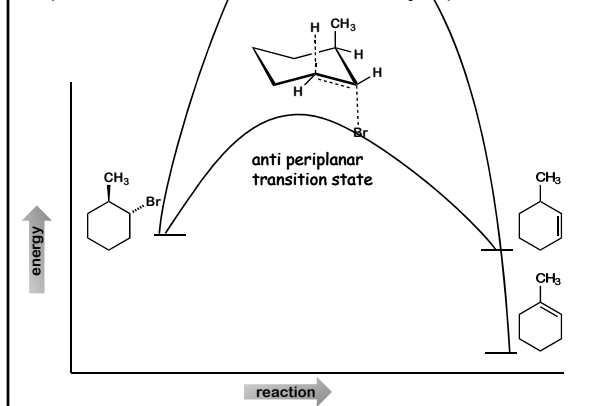
What is the most stable conformation of the above bromocyclohexane derivative?



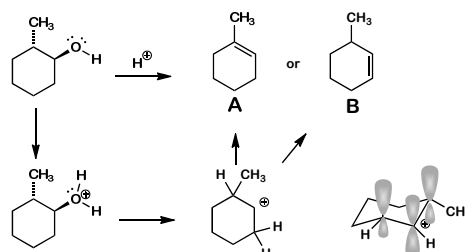
Why is the less stable alkene the major product?



Why is the less stable alkene the major product?



Predict the product of the following reaction.



Choose the major product of the above reaction.

