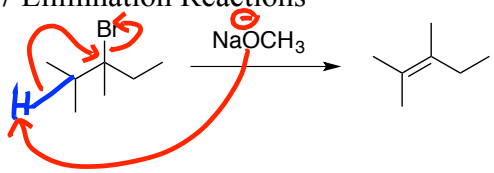
Organic Chemistry I
Test 3 Extra Mechanism Practice Problems
Page 1: Eliminations to make Alkenes. Page 2+3: Reactions of Alkenes

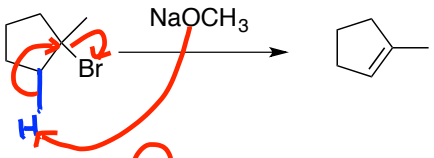
Answers

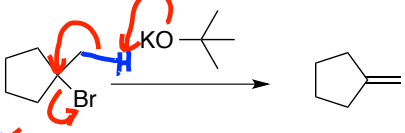
Note: In each of these cases, I am asking you to draw the mechanism for the product shown, even if in some cases there may be other products formed as well. In these problems I'm telling you what type of mechanism is involved; I won't on a test! ☺

Ch. 7 Elimination Reactions

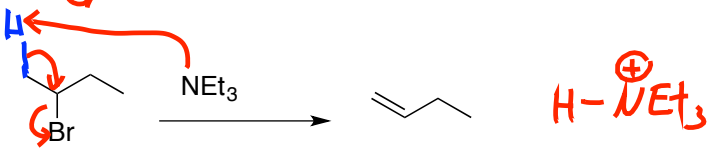
1. 

E2, Small/Normal Base

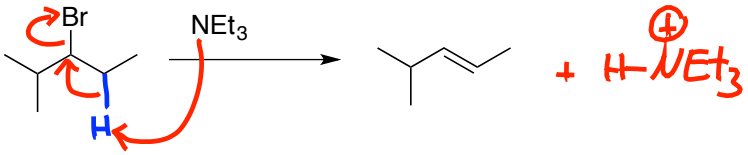
2. 

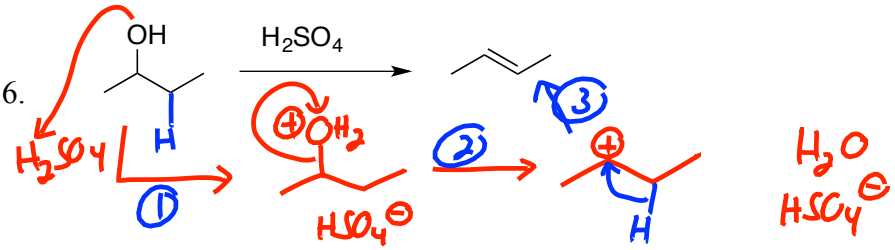
3. 

E2, Bulky Base

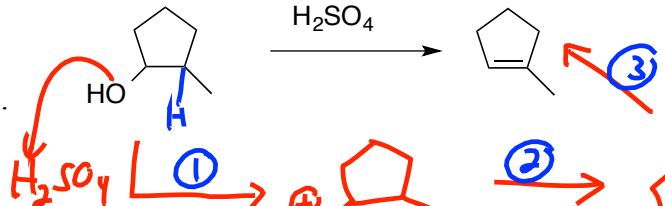
4. 

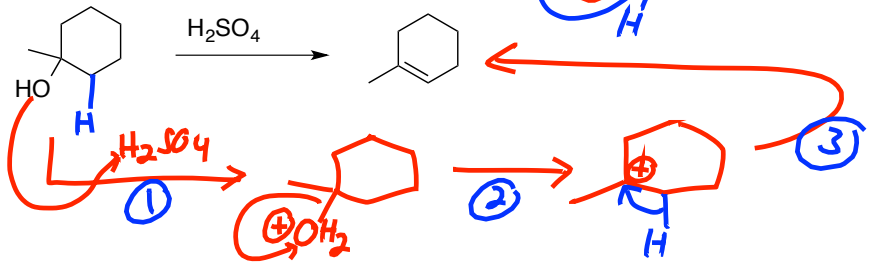
E2, Bulky Base using Neutral NEt_3

5. 

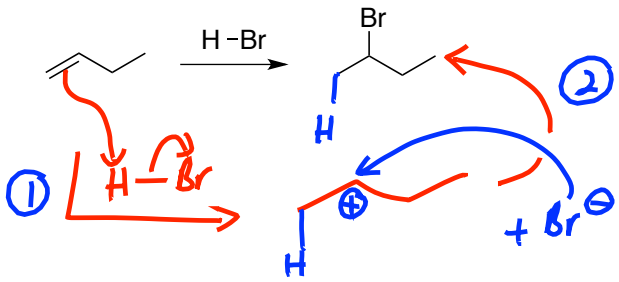
6. 

H^+-Catalyzed Dehydration

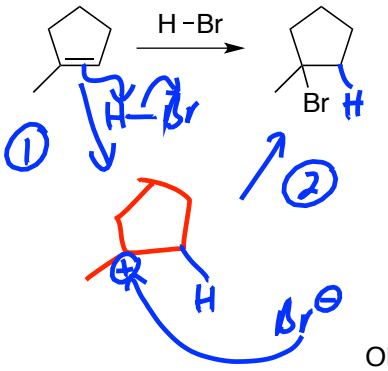
7. 

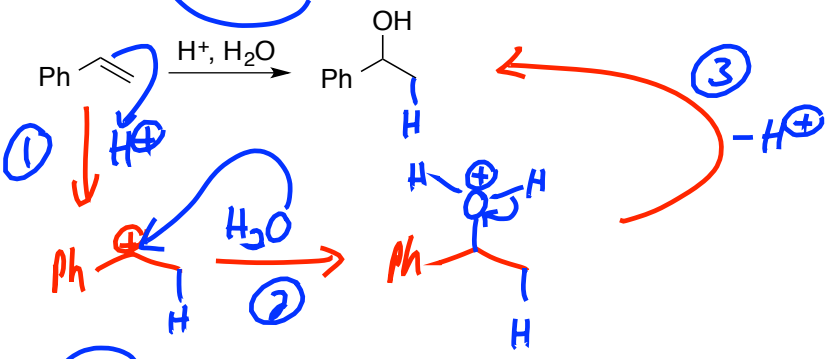
8. 

Ch. 8 Reactions.

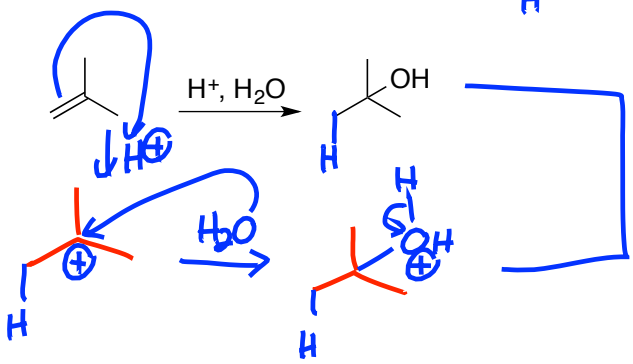
9. 

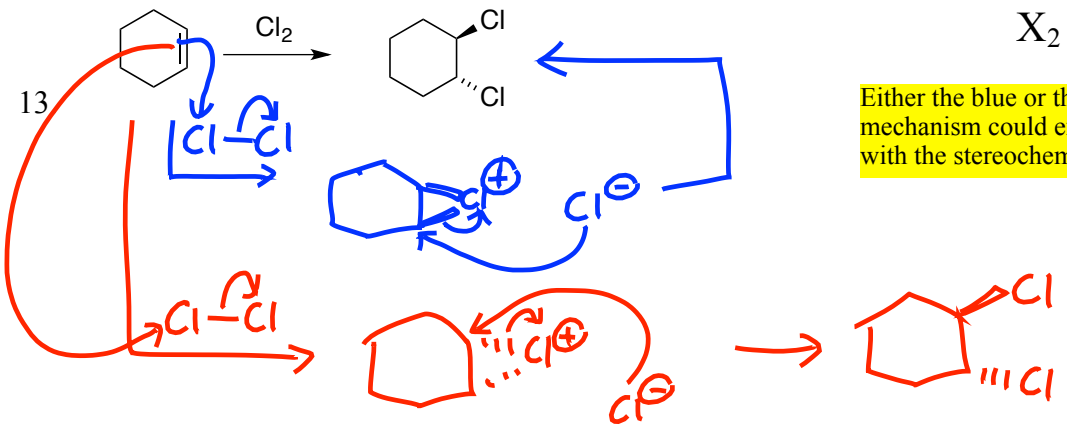
Ionic H-X Addition

10. 

11. 

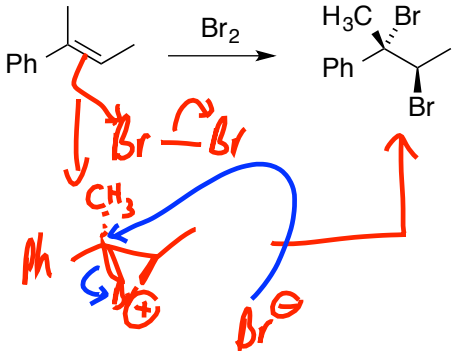
H^+ catalyzed H_2O Addition

12. 

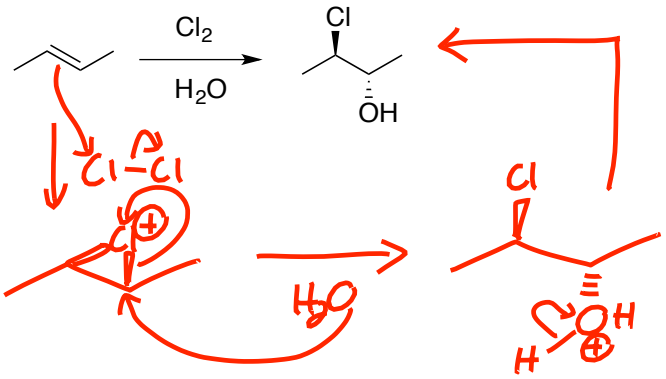
13. 

X_2 addition

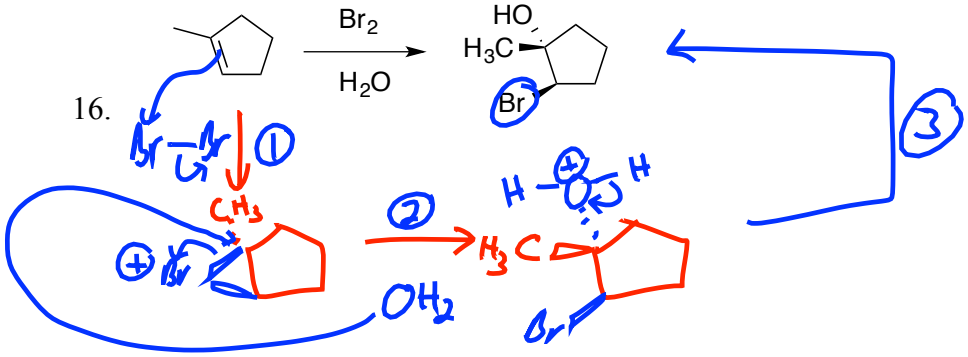
Either the blue or the red mechanism could explain the product with the stereochemistry illustrated.

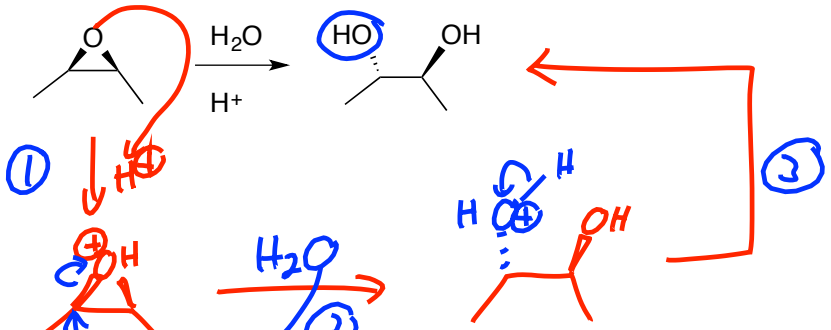
14. 

X_2 addition

15. 

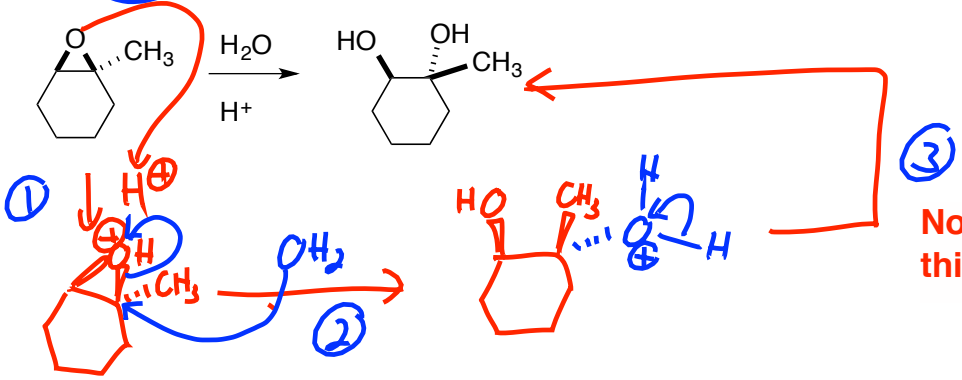
X_2/H_2O addition

16. 

17. 

H^+ catalyzed H_2O addition

Not Responsible for this Year's Testing

18. 

Not Responsible for this Year's Testing