

Organic Chemistry I

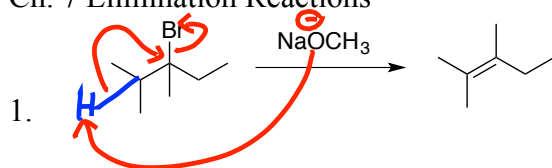
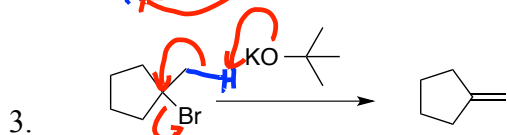
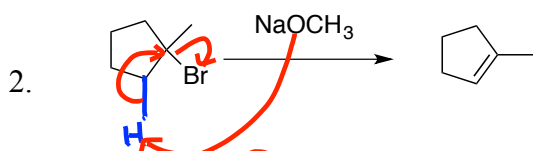
Test 3 Extra Mechanism Practice Problems

Page 1: Eliminations to make Alkenes. Page 2+3: Reactions of Alkenes

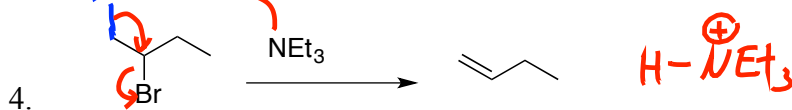
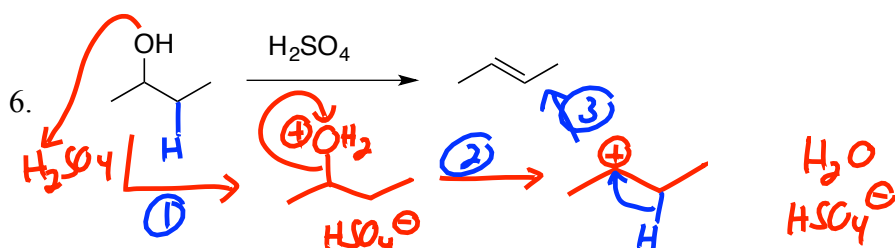
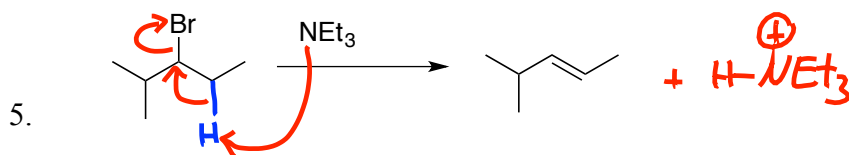
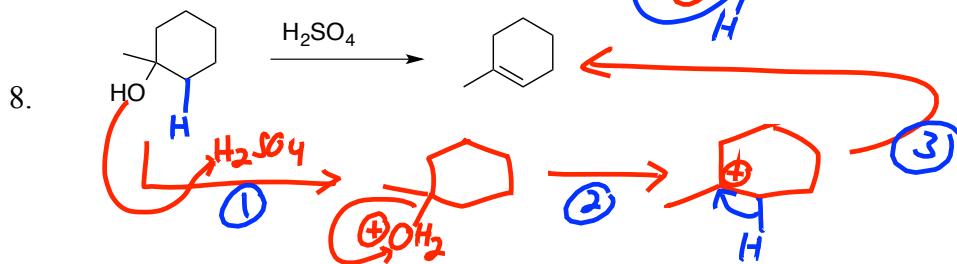
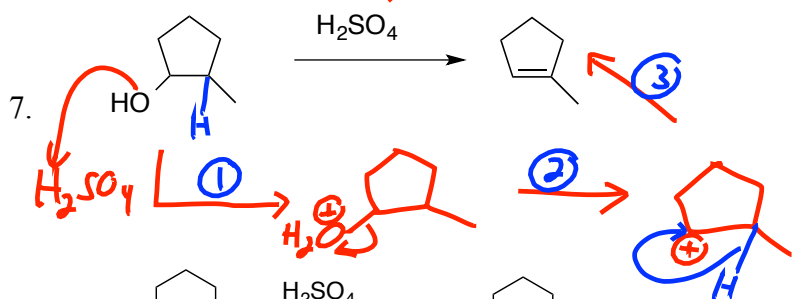
Answers

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! ☺

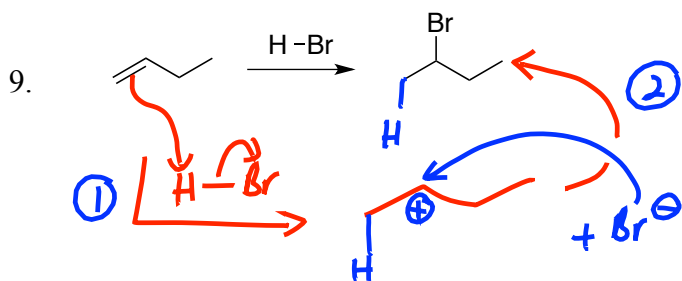
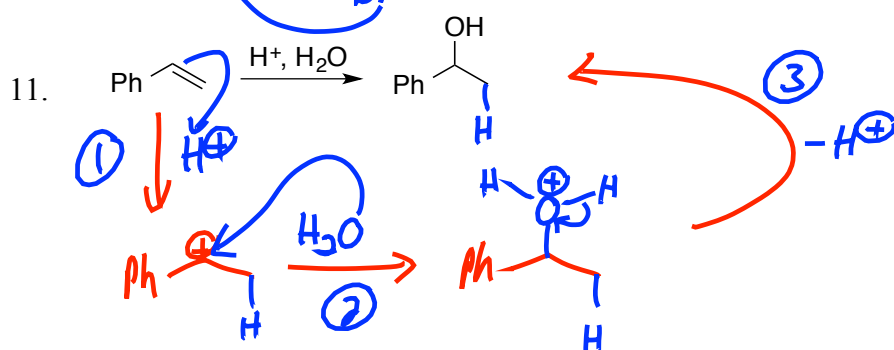
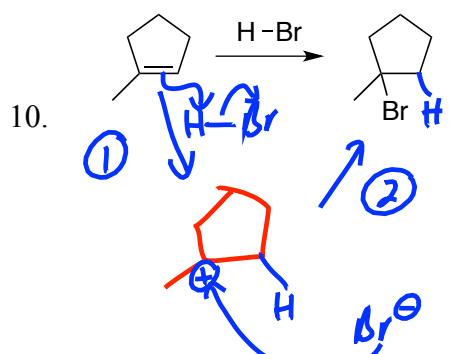
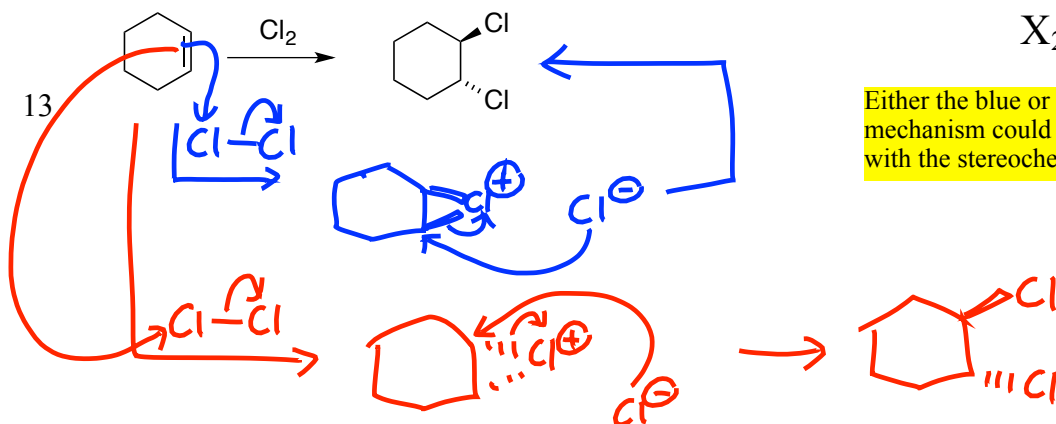
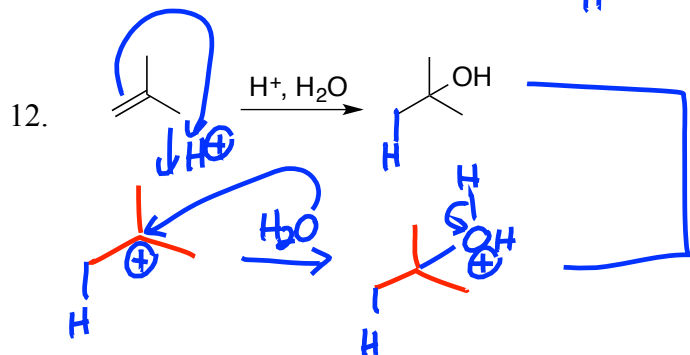
Ch. 7 Elimination Reactions

E2,
Small/Normal
Base

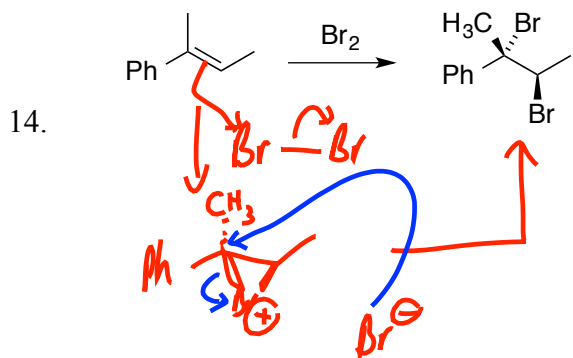
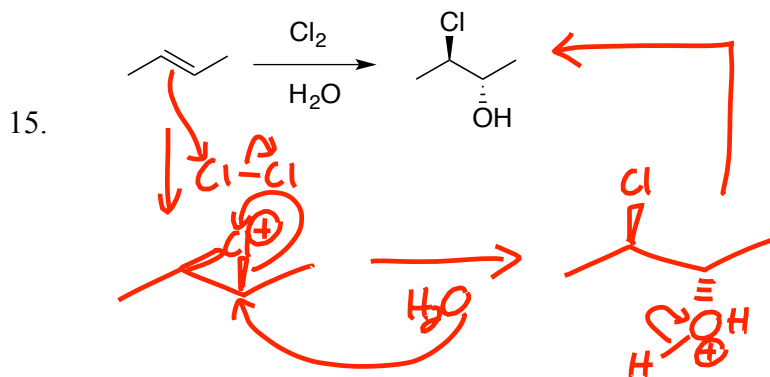
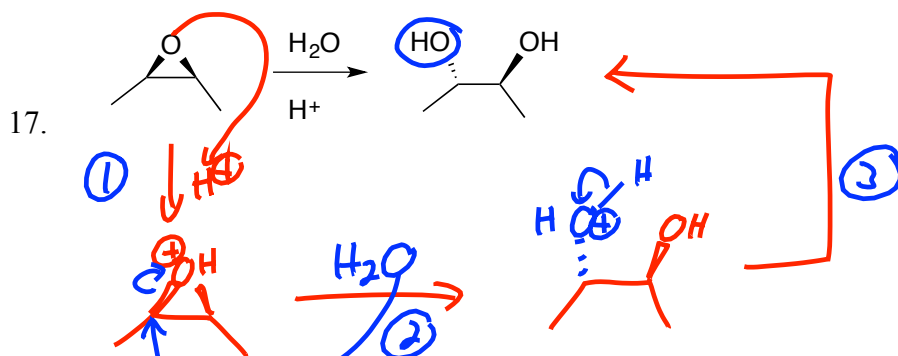
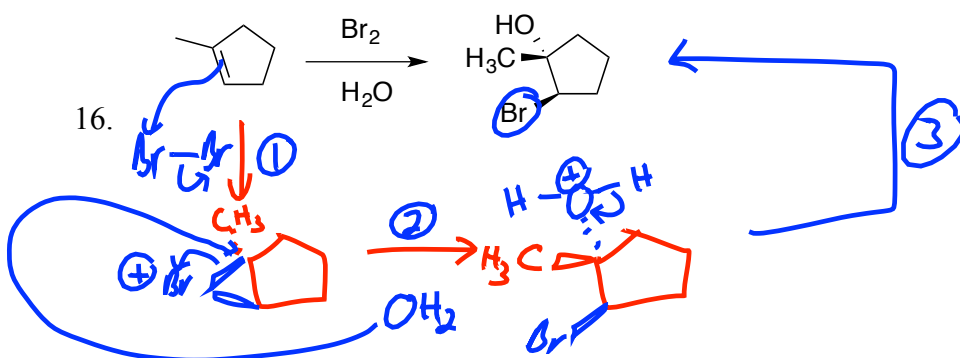
E2, Bulky Base

E2, Bulky Base
using Neutral
NEt₃H⁺-Catalyzed
Dehydration

Ch. 8 Reactions.

Ionic H-X
Addition H^+ catalyzed
 H_2O Addition X_2 addition

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

X₂ additionX₂/H₂O additionH⁺ catalyzed
H₂O addition