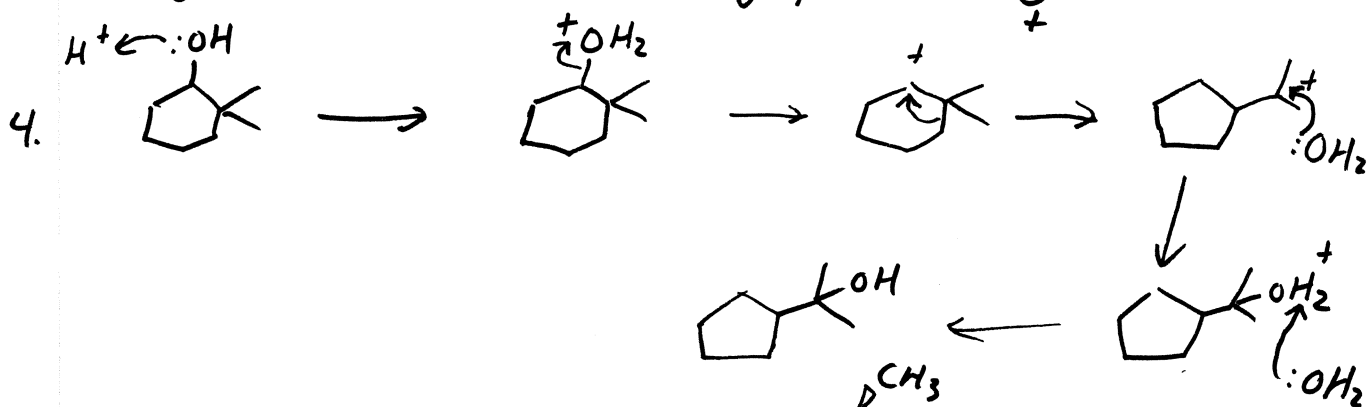
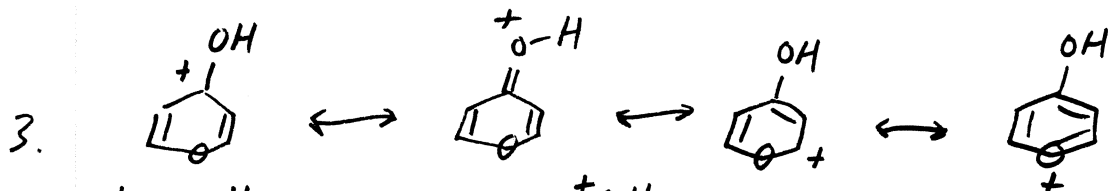
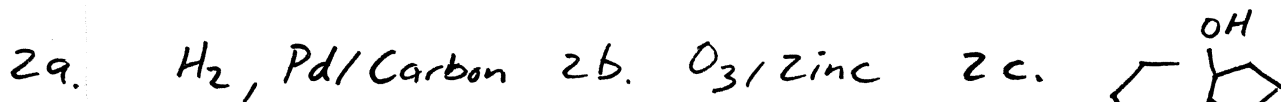
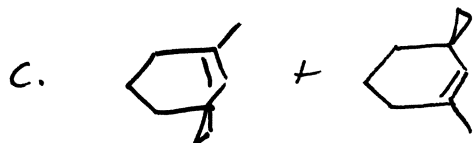
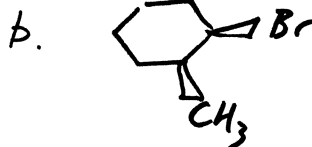


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1. d 2. b 3. a 4. a 5. a 6. d 7. c
 8. c 9. e 10. c 11. e 12. b 13. c 14. e
 15.

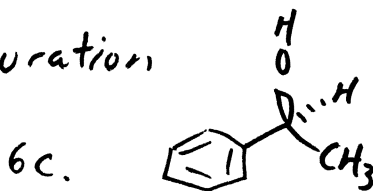
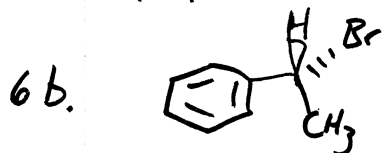


5. a. diastereomers

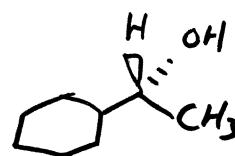


enantiomers

6. a 4 units of unsaturation



S



R

6 d. It's a 50:50 mixture of enantiomers (racemic)
The (-) enantiomer rotates the plane of polarized light in 1 direction. The other enantiomer rotates the plane of polarized light to the same magnitude, but opposite direction.

7.

