## **Answers to Exercise 10.5 Chirality and Enantiomers**

- 1. In these answers, the molecule was flipped left-to-right to generate the image. It would be equally acceptable to flip it top-to-bottom or front-to-back.
- (a) achiral (with no chirality centers)
- (b) chiral

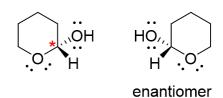
(c) chiral

H : OH HÖ; H

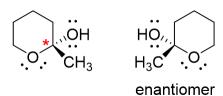
enantiomer

(d) achiral (with no chirality centers)



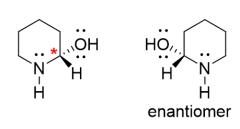


(f) chiral



(g) achiral (with no chirality centers)

(h) chiral



Please remember that achiral molecules containing chirality centers do exist. We saw examples of them in class. It was a coincidence that there weren't any in this Exercise.