Geometry 9.3 Solutions

1. $? = 45°$
2. $? = 30°$
3. $? = 118°$
4. $? = 100°$
5. $x = 10$
6. $x = 12$
7. $x = 6$
8. $x = 8$
9. $x = 10$
10. $x = 3$
11. $m\angle ABD = 42°$
12. $m\widehat{AC} = 125°$
13. $m\widehat{QH} = 159°$
14. $m\angle ACD = 64°$
15. The given measurements imply that $m\widehat{BE} = 40°$ using the Angles Inside the Circle Theorem or they imply that $m\widehat{BE} = 30°$ using Angles Outside the Circle Theorem.
16.
    a. $m\angle A = 80°,\ m\angle B = 25°,\ m\angle C = 40°$
    b. $50°$