Name_____ Date _____

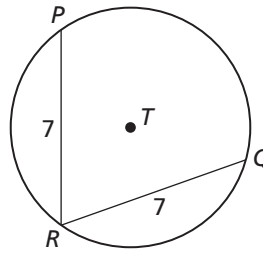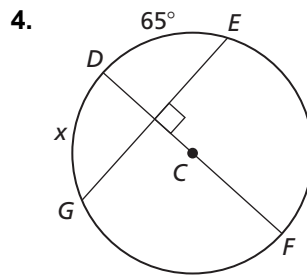## 10.3 Practice A

In Exercises 1 and 2, use the diagram of ⊙*T*.
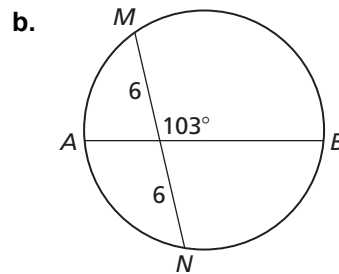
1. If $m\overset{\frown}{PQ} = 130°$, find $m\overset{\frown}{RQ}$.

2. If $m\overset{\frown}{PR} = 100°$, find $m\overset{\frown}{PQ}$.

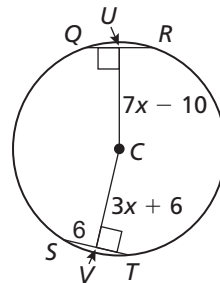**In Exercises 3–5, find the value of *x*.**

3.

4.

5.
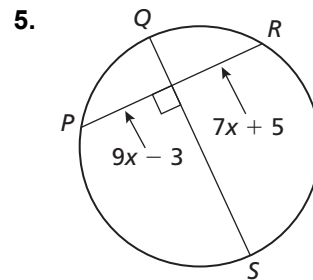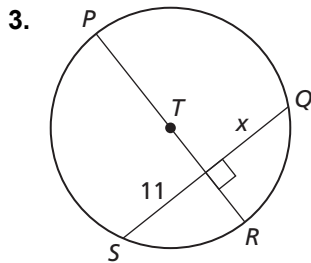
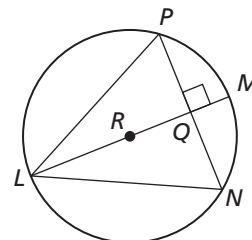6. Determine whether $\overline{AB}$ is a diameter of each circle. Explain your reasoning.

   a.

   b.
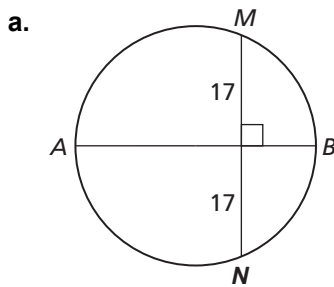
In Exercises 7–9, use the diagram to find the given length. Assume that arc QR ≅ arc ST.

7. CU

8. UR

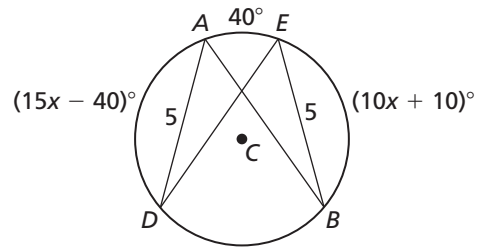9. the radius of ⊙*C*

10. In the diagram of ⊙*R*, which congruence relation is *not* necessarily true?

    A. $\overline{PQ} \cong \overline{QN}$ **B.** $\overline{NL} \cong \overline{LP}$

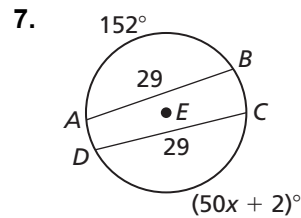   **C.** $\overset{\frown}{MN} \cong \overset{\frown}{MP}$ **D.** $\overset{\frown}{PN} \cong \overset{\frown}{PL}$
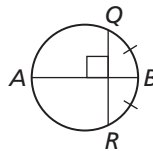
10.3 Practice B

In Exercises 1–4, use the diagram of ⊙C.

1. Explain why $\overset{\frown}{AD} \cong \overset{\frown}{BE}$.

2. Find the value of x.

3. Find $m\overset{\frown}{AD}$ and $m\overset{\frown}{BE}$.

4. Find $m\overset{\frown}{BD}$.

In Exercises 5–7, find the value of x.

5.

6.

7.
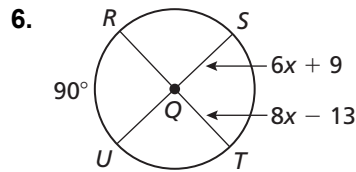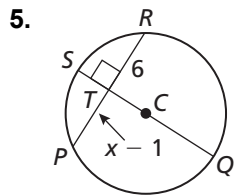
8. Determine whether $\overline{AB}$ is a diameter of the circle. Explain your reasoning.

In Exercises 9 and 10, find the radii of circles Q and W.

9.

10.