Unit 6 – Arcs and Chords
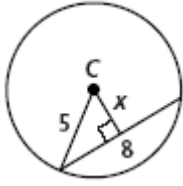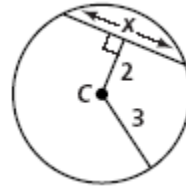
1. Find the value of x rounded to the nearest tenth.

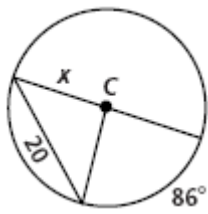**a.**

b.

c.

d.
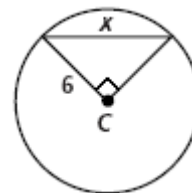
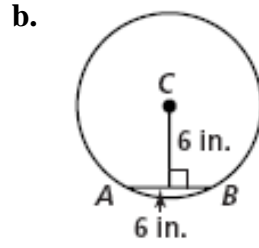**2. Find the radius _AND_ $m\overset{\frown}{AB}$ rounded to the nearest tenth.**

a.

24 ft
5 ft

b.

6 in.
6 in.

c.

2 cm
5 cm
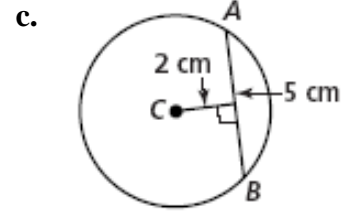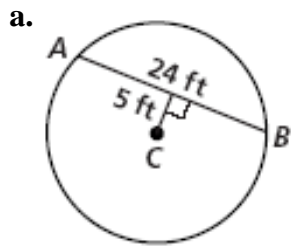
3. Find _CB_ and the length of the chord rounded to the nearest tenth.

5.5   6
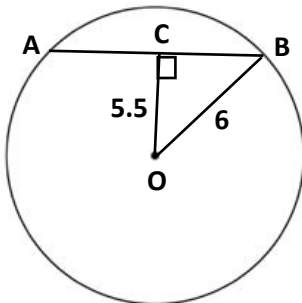
4. Find $m\overset{\frown}{AB}$ and the perpendicular distance to the chord rounded to the nearest tenth.
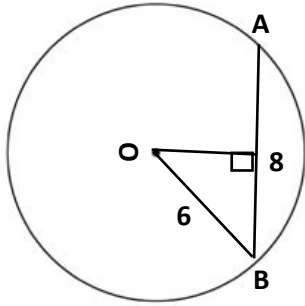
5. Suppose a circle with radius 10 has a central angle of 110°. What is the length of the chord rounded to the nearest tenth?

6. A circle has a radius of 6 and the perpendicular distance from the center to the chord is 2. What is the measure of the central angle that corresponds to the chord rounded to the nearest tenth?

7. What is the measure of the arc corresponding to a chord of length 12 in a circle with radius 7 rounded to the nearest tenth?