HW-49 **Chords and Arcs**

Find the value of *x*.

1.
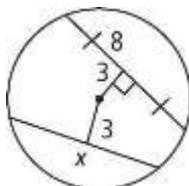
2.
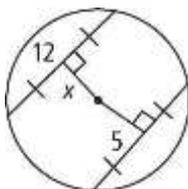
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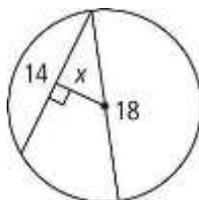
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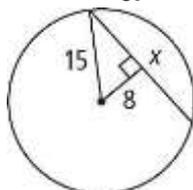
**5.** In the figure at the right, sphere *O* with radius 15 mm is intersected by a plane 3 mm from the center. To the nearest tenth, find ⊙*Y.* the radius of the cross section
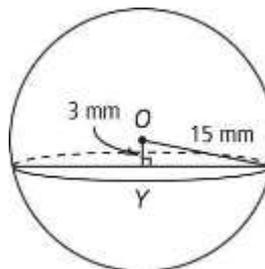
6. **Given:** *AC* and *DB* are diameters of ⊙ *E*. **Prove:** $\triangle EAD \cong \triangle ECB$

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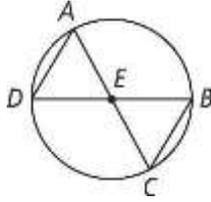
7. If *NO* = 12 in. and *PQ* = 8 in., how long is the radius to the nearest tenth of an inch
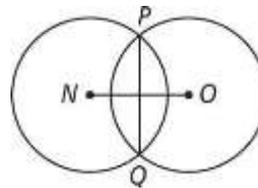
8. If *NO* = 30 mm and radius = 16 mm, how long is *PQ* to the nearest tenth of a millimeter?

9. If radius = 12 m and *PQ* = 9 m, how long is *NO* to the nearest tenth?

10. Two concentric circles have radii of 6 mm and 12 mm. A segment tangent to the smaller circle is a chord of the larger circle. What is the length of the segment to the nearest tenth.