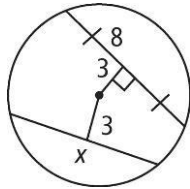


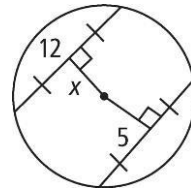
12-2 Chords and Arcs

Find the value of x .

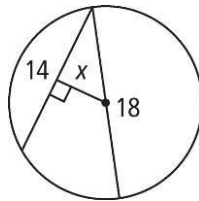
1.



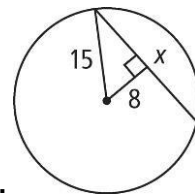
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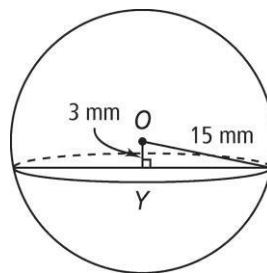
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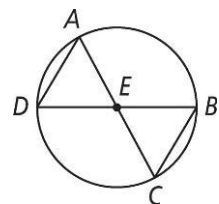
4.



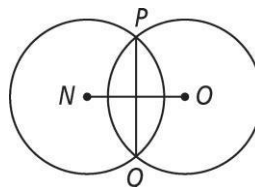
5. In the figure at the right, sphere O with radius 15 mm is intersected by a plane 3 mm from the center. To the nearest tenth, find the radius of the cross section $\odot Y$.



6. **Given:** AC and DB are diameters of $\odot E$. **Prove:** $\triangle EAD \cong \triangle ECB$



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.