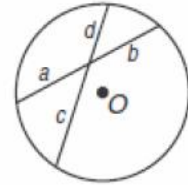


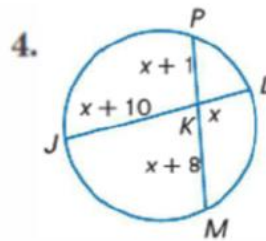
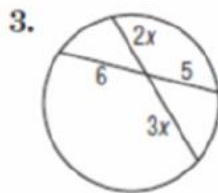
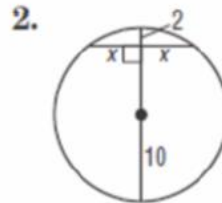
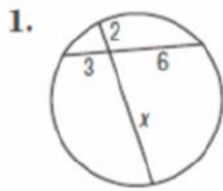
Special Segments

Segments Intersecting Inside a Circle If two chords intersect in a circle, then the products of the measures of the chords are equal.



Intersecting Chords Rule:

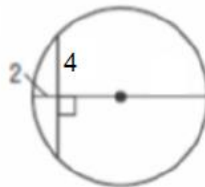
Find x to the nearest tenth.



5. **CAKES** Sierra is serving cake at a party. If the dimensions of the remaining cake are shown below, what was the original diameter of the cake? **13 in.**

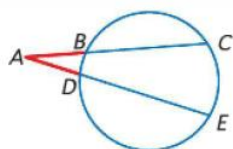


6. Find the radius of the circle.



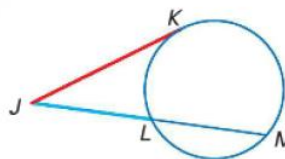
Segments Intersecting Outside a Circle

- If two secant segments are drawn to a circle from an exterior point, then the product of the measures of one secant segment and its external secant segment is equal to the product of the measures of the other secant segment and its external secant segment.



Secant-Secant Rule:

- If a tangent segment and a secant segment are drawn to a circle from an exterior point, then the square of the measure of the tangent segment is equal to the product of the measures of the secant segment and its external secant segment.



Secant-Tangent Rule:

Find x to the nearest tenth. Assume segments that appear to be tangent are tangent.

