

Secants and Tangents

• Secant

- A secant is a line that intersects a circle in exactly two places (similar to a chord but it passes through the circle)
- The measures of the angles/arcs formed by secants and tangents are related to their intercepted arcs.

• Intersections on or inside a circle

- If two secants intersect inside of a circle, the measure of the angle formed is one-half the sum of the measure of the arcs intercepted by angle and its vertical angle



- If a secant and a tangent intersect at the point of tangency, the measure of each angle formed is one-half the measure of its intercepted arc.



Find each measure.

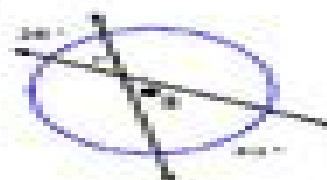
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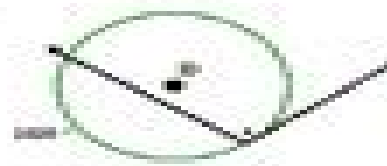
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JS Bruner



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