

Secant and Tangent Relationships

Tangent Theorem: The perpendicular (or segment, or ray) is perpendicular to the radius of the circle at tangency.

This theorem is often used to solve right triangle problems with circles.



Secant Theorem 1: If two chords intersect inside a circle, the products of the measures of the segments of the chords are equal.

$$TA \cdot AT = BT \cdot TD = CT \cdot TE$$

$$TA \cdot AT =$$

$$BT \cdot TD =$$

$$CT \cdot TE =$$

$$AT \cdot AT =$$



Secant Theorem 2: If two secant segments are drawn to a circle from an exterior point outside the circle, 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.

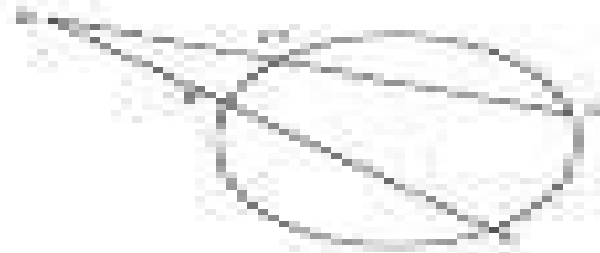
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$$AP \cdot BP =$$

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Secant And Tangent Relationships Teacher

Albert A Gayle



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