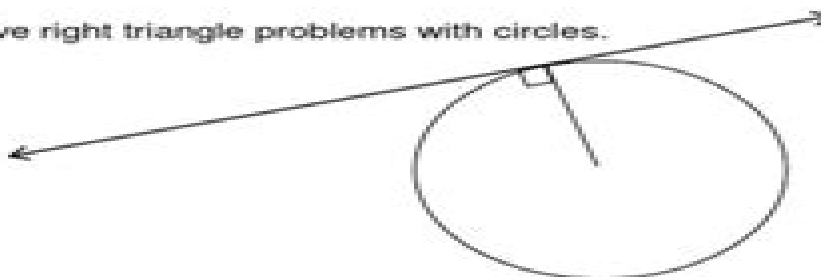


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Tangent Theorem: The tangent line (or segment, or ray) is perpendicular to the radius of the circle at the point of tangency.

This theorem can be 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.

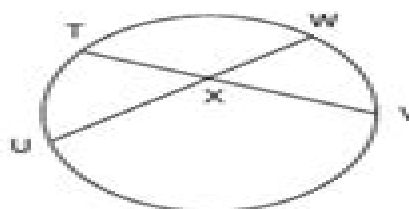
$$TX \cdot XV = UX \cdot XW$$

$$TX = 5$$

$$XV = 8$$

$$UX = 10$$

$$XW = \underline{\hspace{2cm}}$$



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.

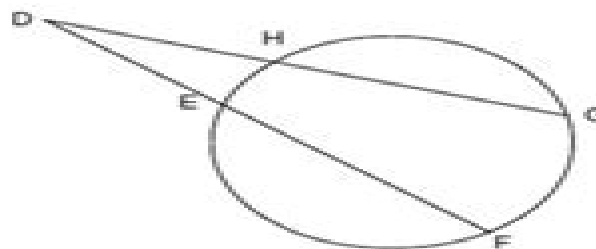
$$DF \cdot DE = DG \cdot DH$$

$$DH = 8$$

$$DE = 6$$

$$DG = 18$$

$$DF = \underline{\hspace{2cm}}$$



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RM Cervero

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