

Geometry
Guided Notes

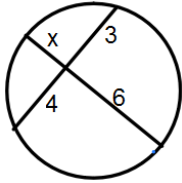
Name: _____

Segments of Circles

Date: _____ Period: ____

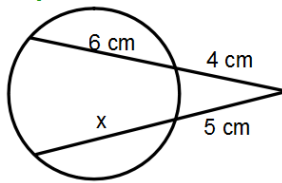
Theorem - If two chords intersect in the interior of a circle, then the product of the length of the segments of one chord is equal to the product of the lengths of the segments of the other chord.

Example #1: Find x .



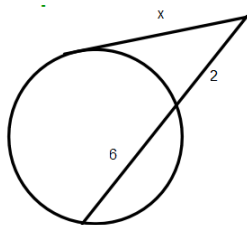
Theorem - If two secant segments share the same endpoint outside a circle, then the product of the length of one secant segment and the length of its external secant segment equals the product of the length of the other secant segment and the length of its external segment.

Example #2: Find x .



Theorem - If a secant segment and a tangent segment share an endpoint outside a circle, then the product of the length of the secant segment and the length of its external segment equals the square of the length of the tangent segment.

Example #3: Find x .

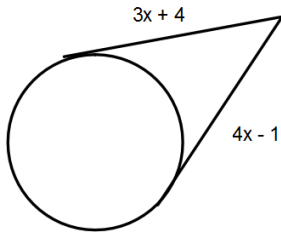


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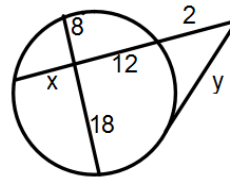
Name: _____

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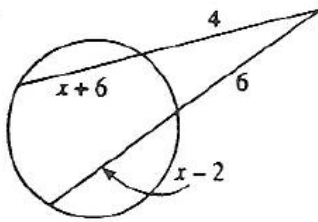
Example #4: Find x .



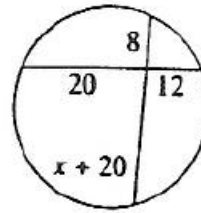
Example #5: Find x .



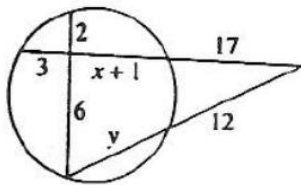
Example #6: Find x .



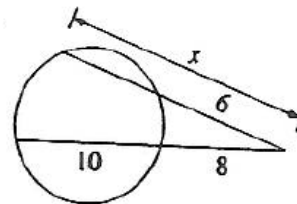
Example #7: Find x .



Example #8: Find x .



Example #9: Find x .



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