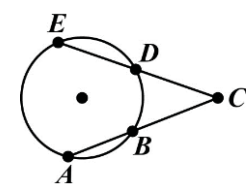
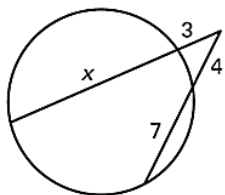


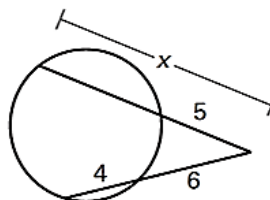
**Day 2 – Segment Lengths: Tangents and Secants**

<p><b>Secant Segment Theorem</b></p>	<p>If two secant segments intersect in the exterior of a circle, then the product of the lengths of the secant segment and its external secant segment is equal to the product of the lengths of the second secant segment and its external secant segment.</p>		
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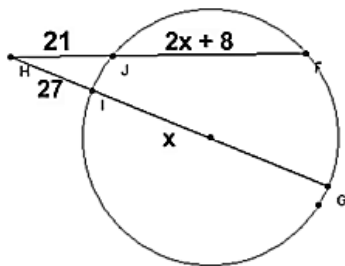
**Example:** Find  $x$ .



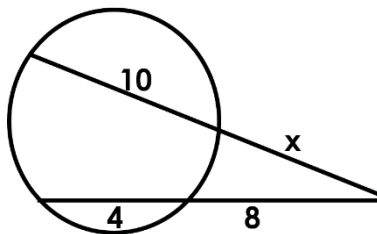
**Example:** Find  $x$ .

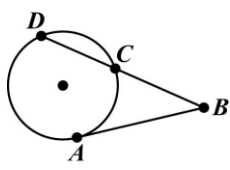


**Example:** Find  $x$  and then  $JF$ .

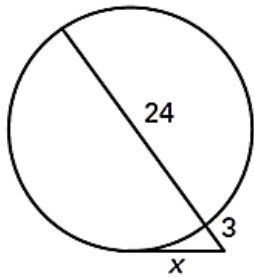


**Example:** Find  $x$ .

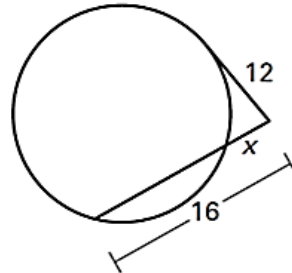


<p><b>Secant Tangent Theorem</b></p>	<p>If a tangent and secant intersect in the exterior of a circle, then the product of the lengths of the secant segment and its external secant segment is equal to the square of the length of the tangent segment.</p>		
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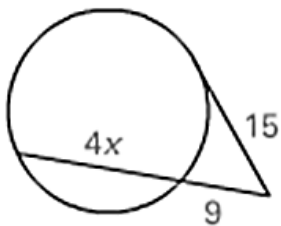
**Example:** Find  $x$ .



**Example:** Find  $x$ .



**Example:** Find  $x$ .



**Example:** Find all possible values of  $x$ .

