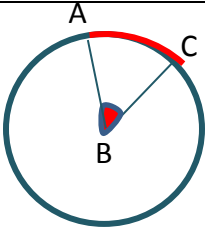
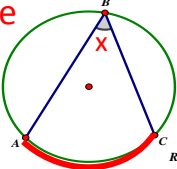
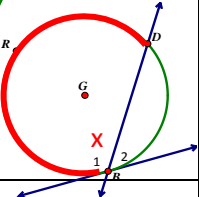
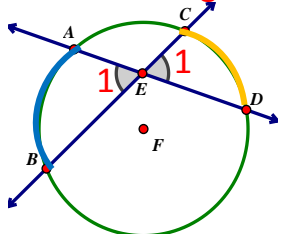
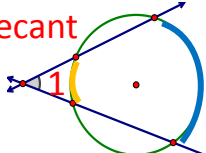
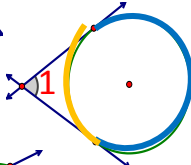
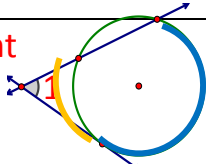
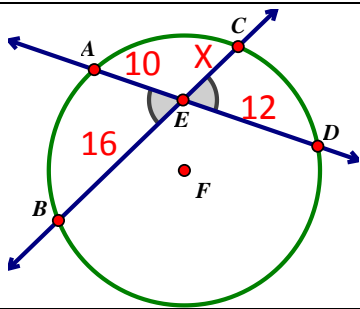
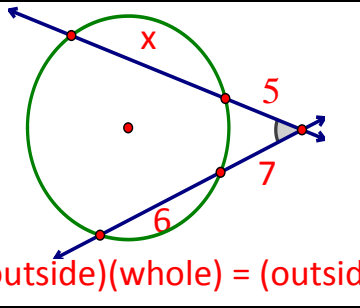
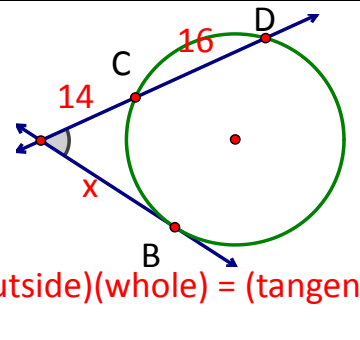
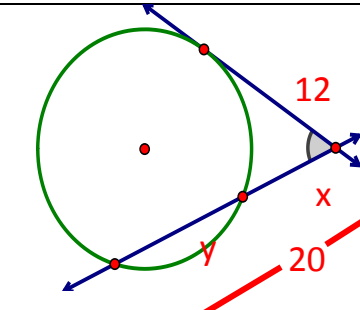


Location of Vertex	Diagram	Method for Finding Angle Measures
<p>CENTER</p>	 <p>Central angle formed by 2 radii</p>	$m\angle ABC = m\widehat{AC}$ <p>∠ measure = intercepted arc measure</p>
<p>ON</p>	<p>Inscribed angle</p>  <p>Tangent-chord angle</p> 	<p>∠ measure = ½ intercepted arc measure</p> <p>Arc measure = twice ∠ measure</p>
<p>INSIDE</p>	<p>chord-chord angle</p> 	<p>∠ measure is the <u>average</u> of the 2 intercepted arcs (look at the original ∠ and its vertical ∠ measure)</p> $m\angle 1 = \frac{\widehat{AB} + \widehat{CD}}{2}$
<p>OUTSIDE</p>	<p>Secant-secant</p>  <p>Tangent-tangent</p>  <p>Secant-tangent</p> 	<p>∠ measure is ½ the <u>difference</u> of the 2 intercepted arcs</p> $m\angle 1 = \frac{\text{big arc} - \text{small arc}}{2}$

Location of Segment Intersection	Diagram	Method for Finding Segment Measures
INSIDE CIRCLE		<p>* The product of the segments of the chords are equal</p> $(AE)(DE) = (CE)(BE)$ <p>EX) $(10)(12) = 16x$ $120 = 16x$ $x = 7.5$</p>
OUTSIDE CIRCLE	 <p>$(\text{outside})(\text{whole}) = (\text{outside})(\text{whole})$</p>	<p>* The product of whole segments connecting the exterior angle to the circle and the exterior segment doing the same are equal.</p> $(AB)(AC) = (AE)(AD)$ <p>EX) $5(x + 5) = 7(13)$ $5x + 25 = 91$ $x = 13.2$</p>
OUTSIDE CIRCLE	 <p>$(\text{outside})(\text{whole}) = (\text{tangent})^2$</p>	$(AC)(AD) = (AB)(AB)$ $(AC)(AD) = (AB)^2$ <p>EX) $14(14+16) = x \cdot x$ $420 = x^2$ $x = \sqrt{420} = 2\sqrt{105} \approx 20.5$</p>
OUTSIDE CIRCLE		<p>EX) $(12)(12) = x(20)$ $20x = 144$ $x = 7.2$ $y = 20 - 7.2$ $y = 12.8$</p>