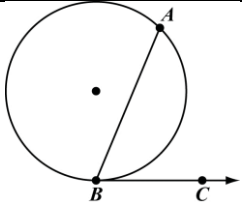
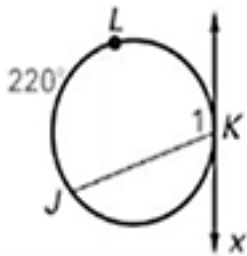


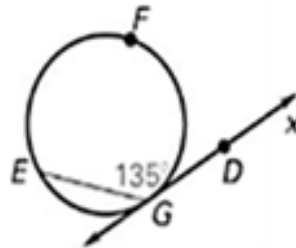
Day 3 – Secant and Tangent Angles (Vertex On, Inside & Outside)

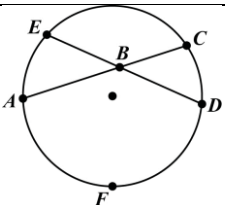
Name	Theorem	Hypothesis	Conclusion
<p>Tangent Chord Theorem <u>(Vertex ON)</u></p>	<p>If a tangent and a chord intersect at a point on the circle, then the measure of each angle formed is one half the measure of its intercepted arc.</p>		

Example: Find the measure of angle 1.

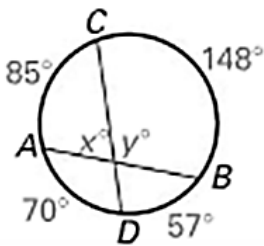


Example: Find the measure of arc EFG.

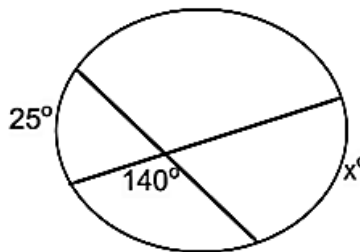


Name	Theorem	Hypothesis	Conclusion
<p>Interior Angles of a Circle Theorem <u>(Vertex INSIDE)</u></p>	<p>If two chords intersect inside the circle, then the measure of each angle is half the sum of the measures of the arcs intercepted by the angle and its vertical angle.</p>		

Example: Find x and y.

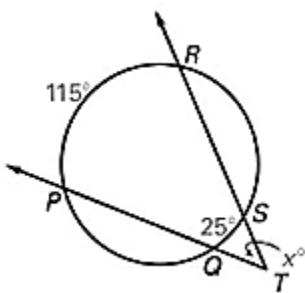


Example: Find the value of x.

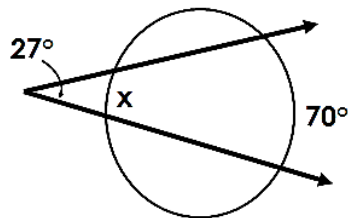


Name	Theorem	Hypothesis	Conclusion
<p>Exterior Angles of a Circle Theorem (Vertex OUTSIDE)</p>	<p>If a tangent and a secant, two tangents, or two secants intersect outside the circle, then the measure of the angle formed is half the difference of the measures of the intercepted arcs.</p>		

Example: Find the value of x .



Example: Find the value of x .



Example: Find the value of x .

