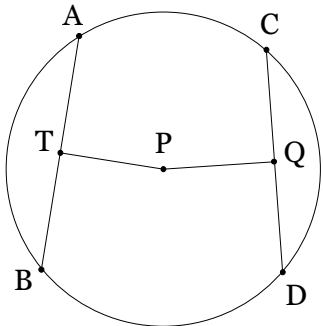
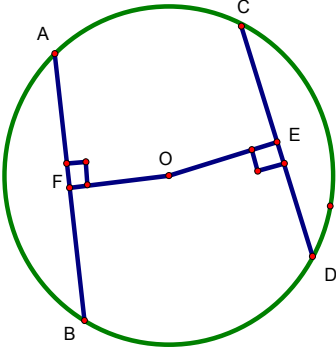
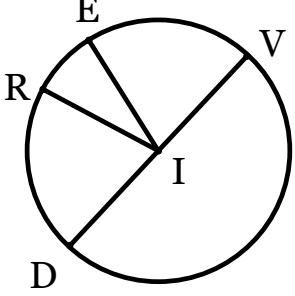
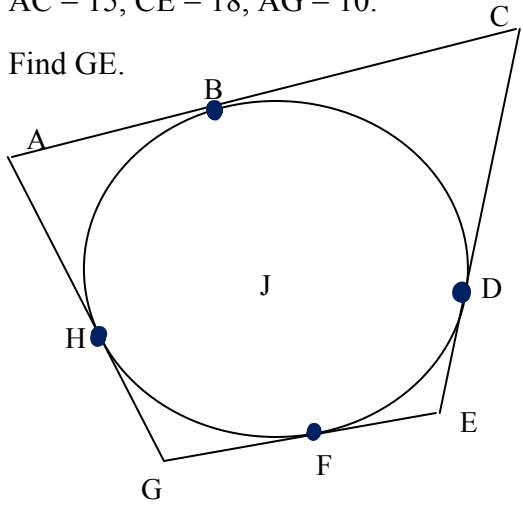
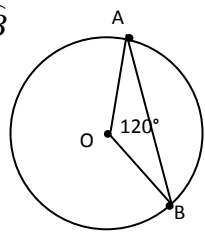
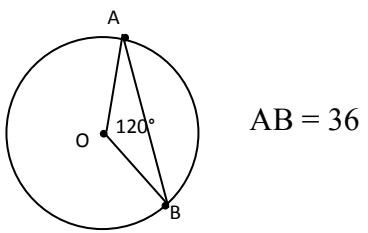


What are we learning in the Circle Part 1: 10.1-10.4, 10.9?

****Please indicate how you feel about the required topics in this unit. ****

Objective	Example	Answer	Rating
Use any of the vocabulary from this unit	Circle • Center • Radius • Concentric • Interior • Exterior • Chord Diameter • Arc • Central angle • Minor arc • Major arc • Semicircle Secant • Tangent • Point of tangency • External part • Tangent circles Externally tangent • Internally tangent • Common tangent Common external tangent • Common internal tangent • Circumference Arc length		😊 😐 😞
Apply radius-chord relationships	Find the radius of a circle in which a 32 cm chord is 4 cm closer to the center than a 24 cm chord.	20 cm	😊 😐 😞
Apply “congruent chords” theorem	 <p>Given: $\odot P, \overline{AB} \cong \overline{CD}$ $PT = \sqrt{x+5}$ $PQ = x-3$</p> <p>Find: PT, PQ</p>	$\frac{1 + \sqrt{33}}{2}$	😊 😐 😞
Apply “equidistant to two chords” theorem	<p>Given: $\odot O$ $AB = \sqrt{8x-2}$ $CE = \sqrt{3x-4}$ $OF = OE$</p> <p>Find AB.</p> 	$\sqrt{26}$	😊 😐 😞
Apply congruent chords \Leftrightarrow congruent arcs \Leftrightarrow congruent central angles theorems	<p>Given: $\odot I, \overline{DR} \cong \overline{EV}$ $\angle DIR = (3x+2y)^\circ$ $\angle VIE = (7y-12x)^\circ$ $\angle RIE = (3x-9)^\circ$</p> <p>Find $m\widehat{RE}$</p> 	18°	😊 😐 😞

<p>Apply the Two-Tangent Theorem</p>	<p>$AC = 15, CE = 18, AG = 10.$ Find GE.</p> 	<p>13</p>	<p>😊 😐 😞</p>
<p>Find the length of the common tangent, either internal or external</p>	<p>A circle with radius of 8 is externally tangent to a circle with a radius of 18. Find the length of the common external tangent of the circles.</p>	<p>24</p>	<p>😊 😐 😞</p>
<p>Calculate the arc measure</p>	<p>Find: $m\widehat{AB}$</p> 	<p>Minor: $m\widehat{AB} = 120^\circ$ Major: $m\widehat{AB} = 240^\circ$</p>	<p>😊 😐 😞</p>
<p>Calculate arc length</p>	<p>Find: arc length \widehat{AB}</p> 	<p>Arc length = $8\sqrt{3}\pi$</p>	<p>😊 😐 😞</p>