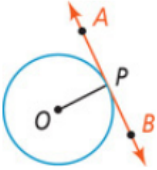
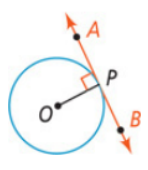
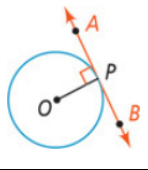
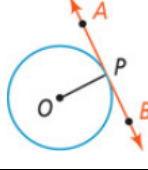
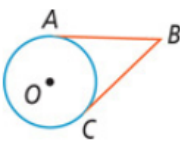
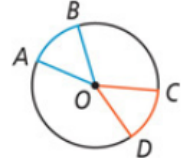
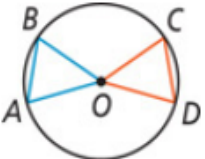
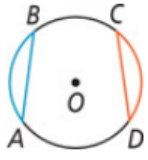
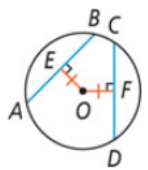
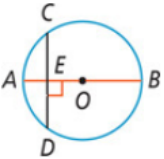
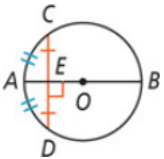
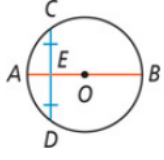
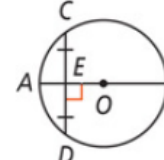
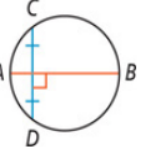
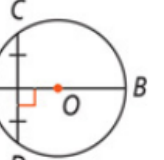
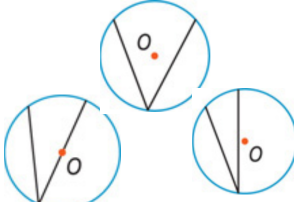


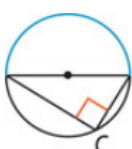
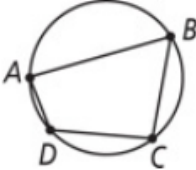
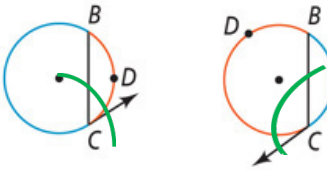
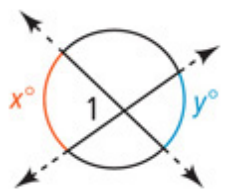
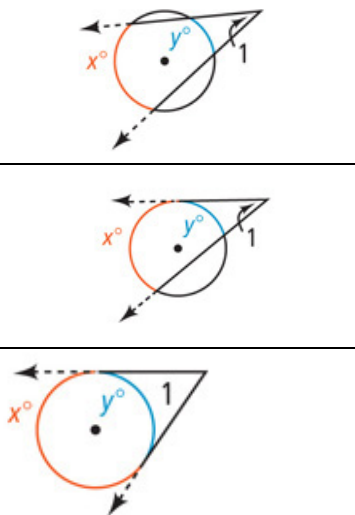
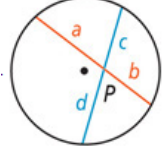
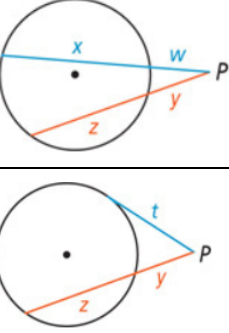
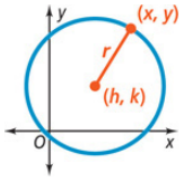


Circles' Chords, Angles, Arcs, Secants, and Segments.

	If	then	Notes
12-1	\overleftrightarrow{AB} is tangent to $\odot O$ at P 	$\overleftrightarrow{AB} \perp \overline{OP}$ 	
12-2	$\overleftrightarrow{AB} \perp \overline{OP}$ 	\overleftrightarrow{AB} is tangent to $\odot O$ at P 	
12-3	\overline{BA} and \overline{BC} are tangent to $\odot O$ 	$\overline{BA} \cong \overline{BC}$	
12-4	 $\angle AOB \cong \angle COD,$	$\widehat{AB} \cong \widehat{CD}.$	
12-5	 $\angle AOB \cong \angle COD,$	$\overline{AB} \cong \overline{CD}.$	
12-6	 $\overline{AB} \cong \overline{CD},$	$\widehat{AB} \cong \widehat{CD}.$	
12-7	 $OE = OF,$	$\overline{AB} \cong \overline{CD}.$	

<p>12-8</p>	<p>\overline{AB} is a diameter and $\overline{AB} \perp \overline{CD}$</p> 	<p>$\overline{CE} \cong \overline{ED}$ and $\widehat{CA} \cong \widehat{AD}$</p> 	
<p>12-9</p>	<p>\overline{AB} is a diameter and $\overline{CE} \cong \overline{ED}$</p> 	<p>$\overline{AB} \perp \overline{CD}$</p> 	
<p>12-10</p>	<p>\overline{AB} is the perpendicular bisector of chord \overline{CD}</p> 	<p>\overline{AB} contains the center of $\odot O$</p> 	
<p>12-11</p>		<p>$m\angle B = \frac{1}{2}m\widehat{AC}$</p> 	
	<p>Corollary 1</p>  <p>Two inscribed angles that intercept the same arc are congruent.</p>	<p>Corollary 2</p>  <p>An angle inscribed in a semicircle is a right angle.</p>	<p>Corollary 3</p>  <p>The opposite angles of a quadrilateral inscribed in a circle are supplementary.</p>
<p>12-12</p>		<p>$m\angle C = \frac{1}{2}m\widehat{BDC}$</p>	
<p>12-13</p>		<p>$m\angle 1 = \frac{1}{2}(x + y)$</p>	

12-14		$m\angle 1 = \frac{1}{2}(x - y)$	
12-15		$a \cdot b = c \cdot d$	
12-16		$(w+x)w = (y+z)y$	
12-16	 <p>center (h, k) and radius r</p>	$(x-h)^2 + (y-k)^2 = r^2.$	