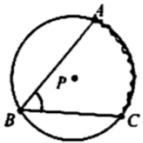
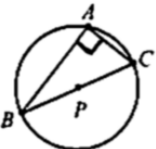
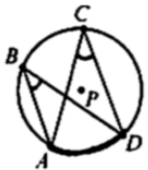
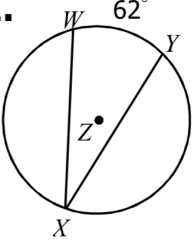
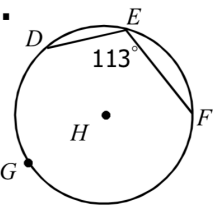
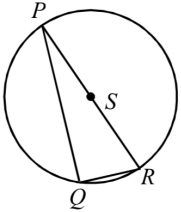
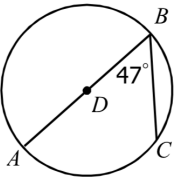
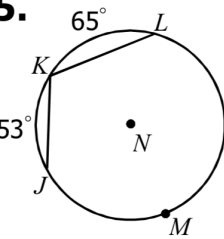
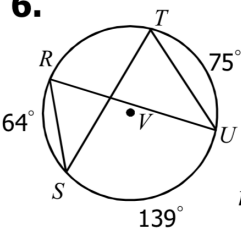
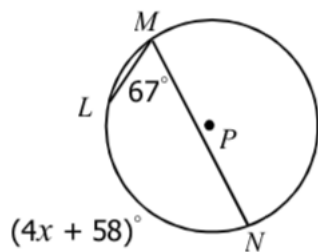


<p>Inscribed Angles</p>  <p>$m\angle ABC = \frac{1}{2} m\widehat{AC}$</p>	<ul style="list-style-type: none"> An inscribed angle is an angle with its vertex <u>on</u> the circle with two sides that are <u>chords</u>. An intercepted arc is the arc that lies between the <u>endpoints</u> of an inscribed angle. The degree of the inscribed angle is equal to <u>half</u> the measure of its intercepted arc.
<p>Intercepting a Diameter</p>	 <p>If an inscribed angle intercepts a diameter, then then it is a <u>right</u> angle.</p> <p>$m\angle BAC = \underline{90^\circ}$</p>
<p>Overlapping Arcs</p>	 <p>If two inscribed angles intercept the same arc, then the angles are <u>congruent</u>.</p> <p>$m\angle ABD = \underline{m\angle ACD}$</p>

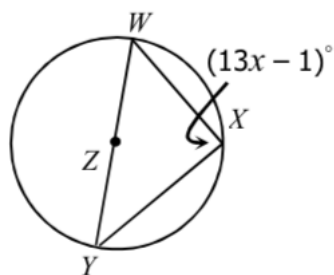
Directions: Find the measures of the angles and arcs below.

<p>1.</p>  <p>$m\angle WXY = \underline{\hspace{2cm}}$</p>	<p>2.</p>  <p>$m\widehat{DGF} = \underline{\hspace{2cm}}$</p>
<p>3.</p>  <p>$m\angle PQR = \underline{\hspace{2cm}}$</p>	<p>4.</p>  <p>$m\widehat{BC} = \underline{\hspace{2cm}}$</p>
<p>5.</p>  <p>$m\angle JKL = \underline{\hspace{2cm}}$</p>	<p>6.</p>  <p>$m\angle RST = \underline{\hspace{2cm}}$</p> <p>$m\angle RUT = \underline{\hspace{2cm}}$</p>

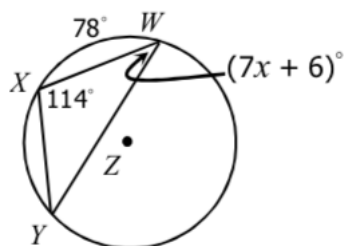
7. Solve for x .



8. Solve for x .



9. Solve for x .



10. If $m\angle ABD = (6x + 26)^\circ$ and $m\angle ACD = (13x - 9)^\circ$, find $m\widehat{AD}$.

