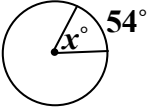
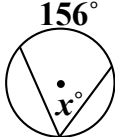
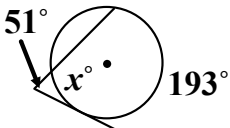


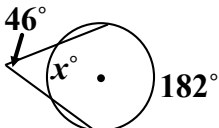
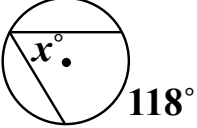

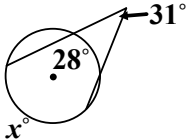

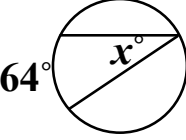
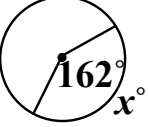
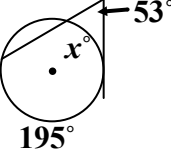
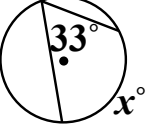
Name: \_\_\_\_\_

### Angle Relationships in Circles

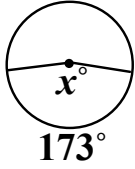
Like with segments, the angles in a circle are related to each other and to the arcs that they create. Also like with segments, these relationships follow a set of rules.

Central Angle	Inscribed Angle	Exterior Angle
$2(\textit{inscribed}) = \boxed{\textit{central} = \textit{arc}}$	$\boxed{2(\textit{inscribed})} = \textit{central} = \boxed{\textit{arc}}$	$2(\textit{exterior}) = \textit{arc}_1 - \textit{arc}_2$
<p>EX:</p>  <p><math>x = \boxed{54^\circ}</math></p>	<p>EX:</p>  <p> <math>2(x) = 156</math>  <math>x = \boxed{78^\circ}</math> </p>	<p>EX:</p>  <p> <math>2(51) = 193 - x</math>  <math>102 = 193 - x</math>  <math>-91 = -x</math>  <math>91 = x</math>  <math>x = \boxed{91^\circ}</math> </p>

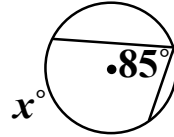
Determine the value of  $x$ .

<p>1.</p> 	<p>2.</p> 	<p>3.</p> 
<p>4.</p> 	<p>5.</p> 	<p>6.</p> 
<p>7.</p> 	<p>8.</p> 	<p>9.</p> 

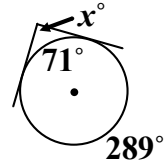
10.



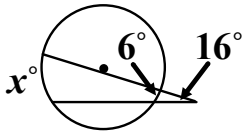
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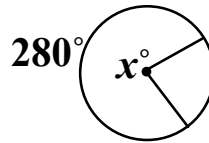
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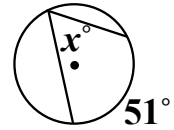
13.



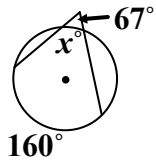
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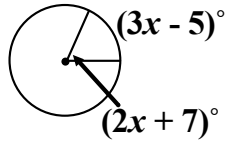
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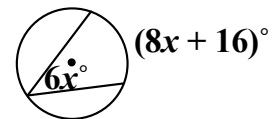
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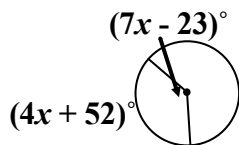
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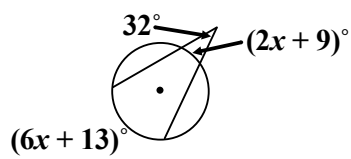
18.



19.



20.



21.

