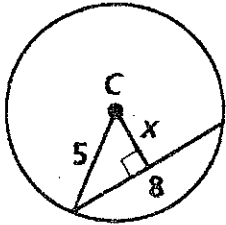
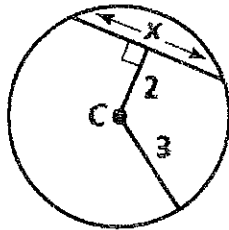


12-1 to 12-3 Mixed Review

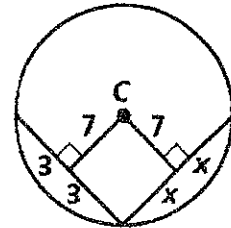
Find the value of each variable.



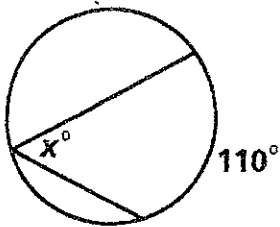
$x = 3$



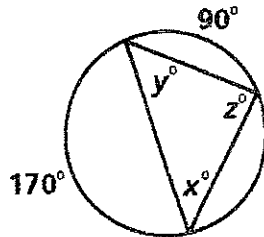
$x = 4.5$



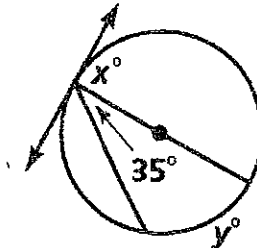
$x = 3$



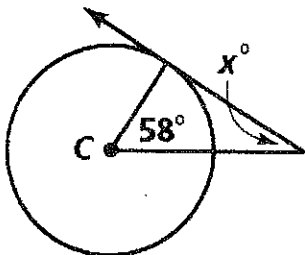
$x = 55$



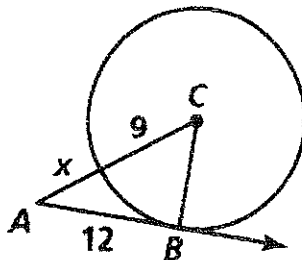
$x = 45$
 $y = 50$
 $z = 85$



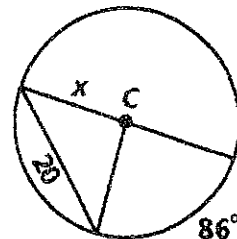
$x = 90$
 $y = 70$



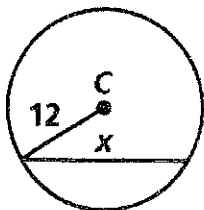
$x = 32$



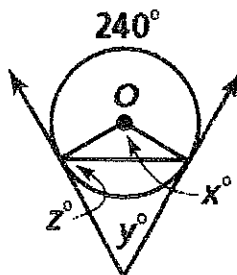
$x = 6$



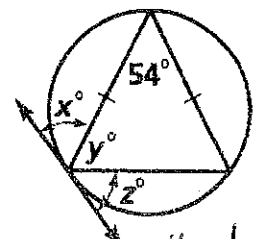
$x = 13.7$



120°
 $x = 20.8$

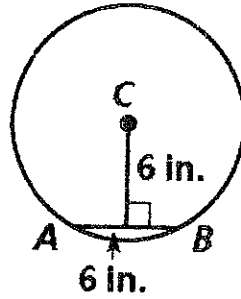
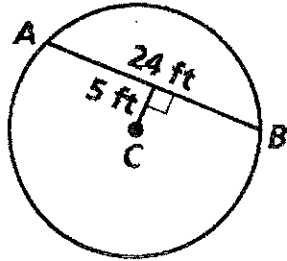


$x = 120$
 $y = 60$
 $z = 60$



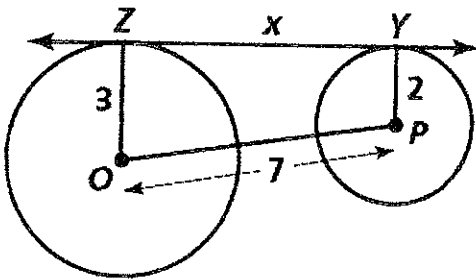
$x = 63$
 $y = 63$
 $z = 54$

Find the radius and $m\widehat{AB}$.
 radius = 13 $m\widehat{AB} = 134.8$



radius = $\sqrt{45}$
 $m\widehat{AB} = 53.1$

In each diagram, \overleftrightarrow{ZY} is tangent to circles O and P . Find the value of x .



$x = 6.9$