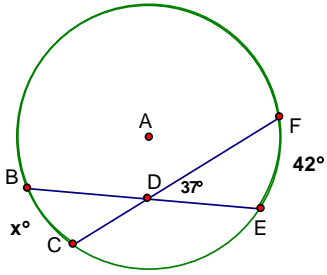


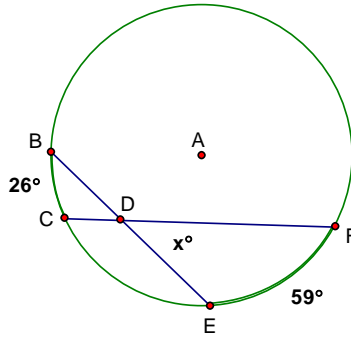
### 9.3 Properties of Chords

Find the value of  $x$ .

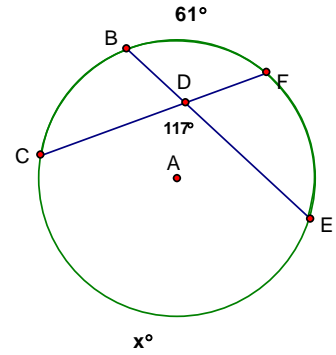
1.



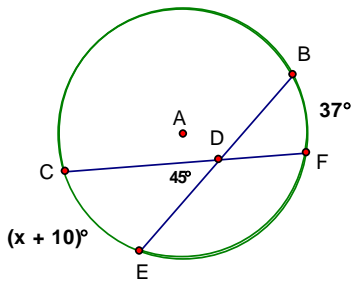
2.



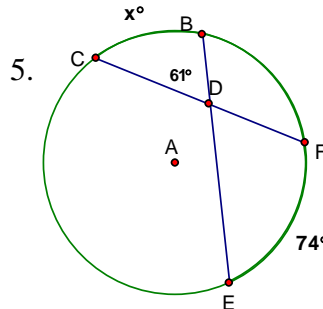
3.



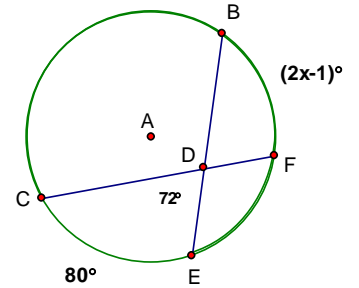
4.



5.

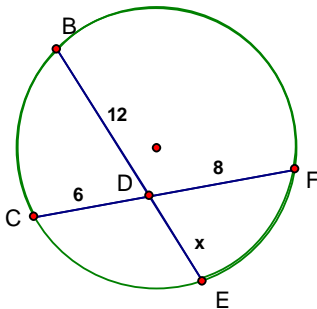


6.

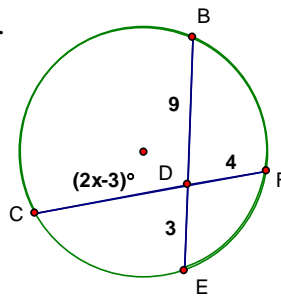


Find the value of  $x$ .

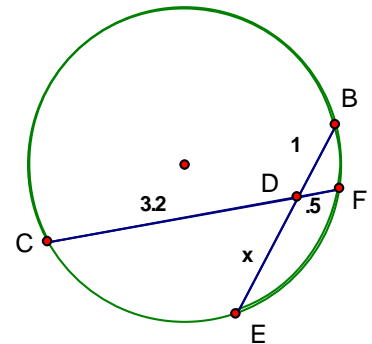
7.



8.

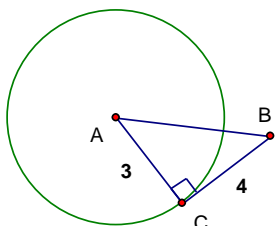


9.

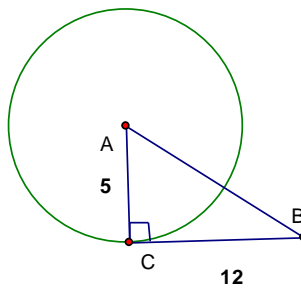


Find the value of the missing side.

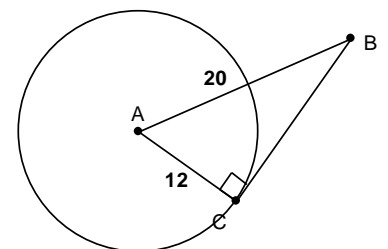
10.



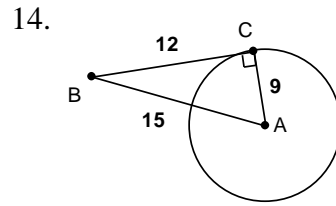
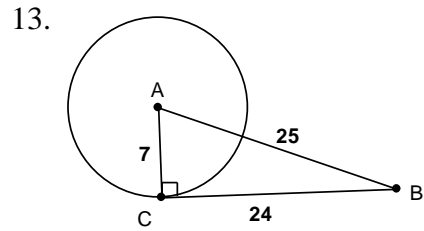
11.



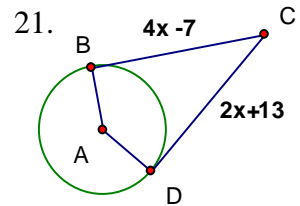
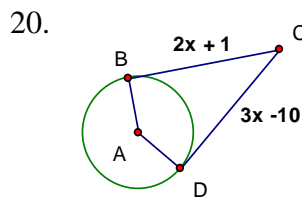
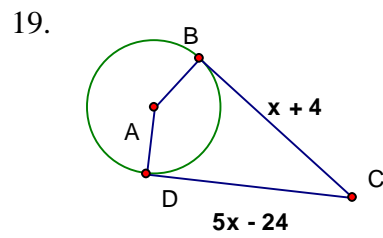
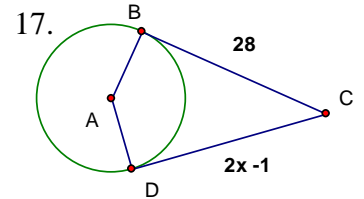
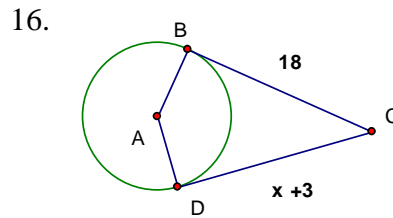
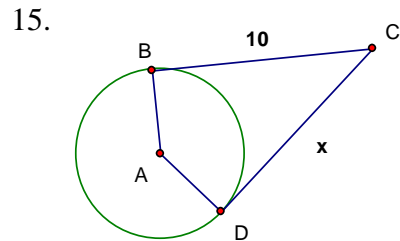
12.



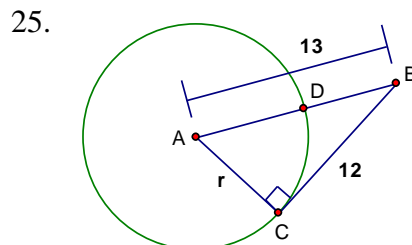
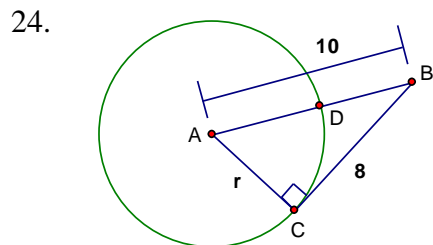
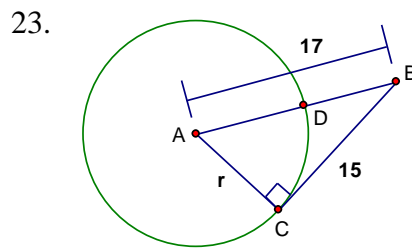
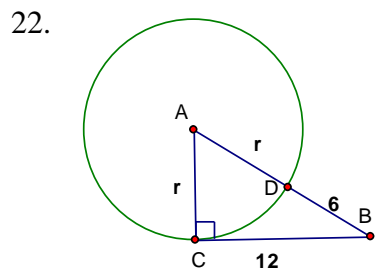
Prove that radius  $\overline{CB} \perp \overline{AC}$  using the Pythagorean theorem.



Find the value of x.



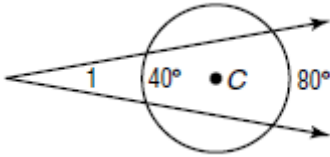
Find the radius "r".



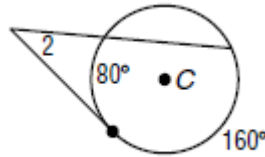
### 9.4 Circumscribed Angles

Find the missing measure.

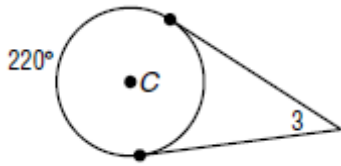
26.  $m\angle 1$



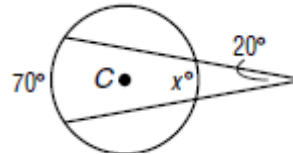
27.  $m\angle 2$



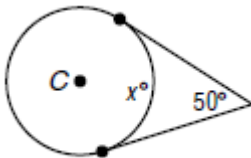
28.  $m\angle 3$



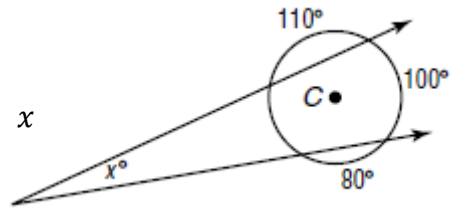
29.  $x$



30.  $x$

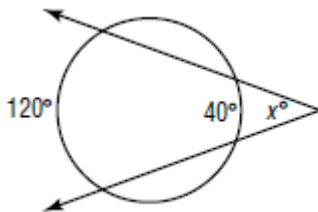


31.  $x$

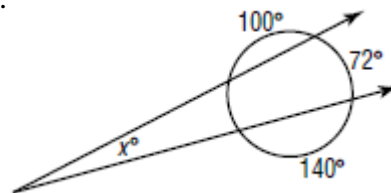


Find  $x$ . Assume that any segment that appears to be tangent is tangent.

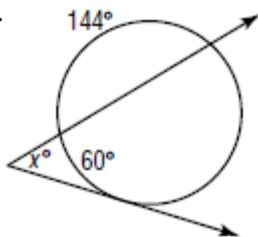
32.



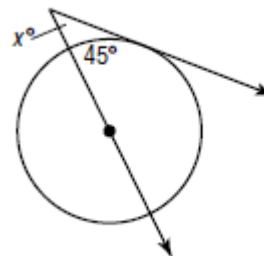
33.



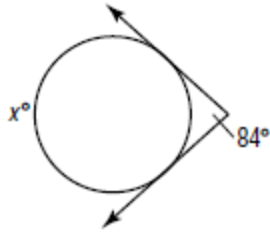
34.



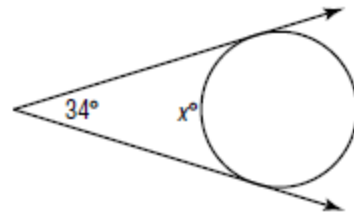
35.



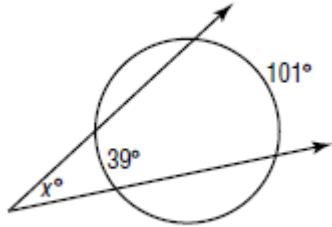
36.



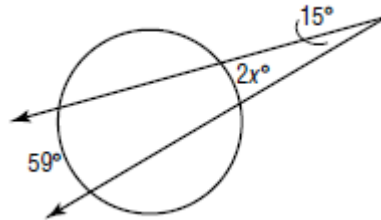
37.



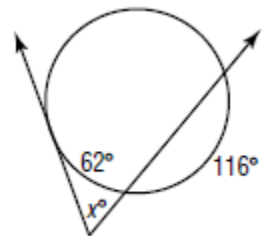
38.



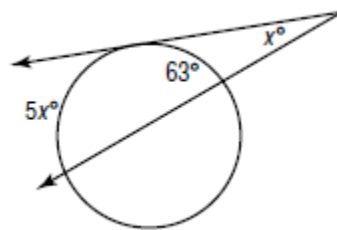
39.



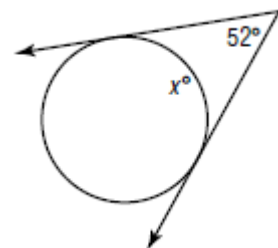
40.



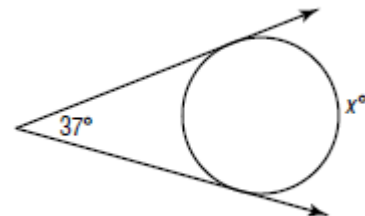
41.



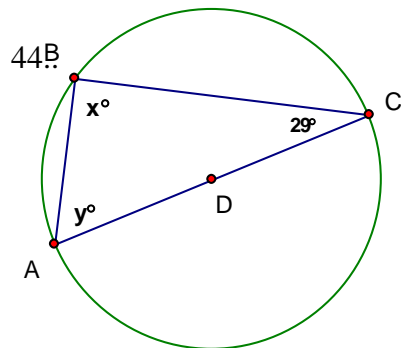
42.



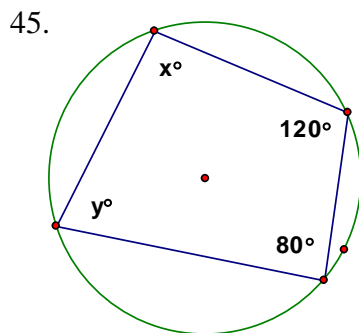
43.



**Find the angle measure for x and y.**



$\overline{AC}$  is the diameter of  $\odot D$



46.  $m\angle 1 = 4x - 7$ ,  
 $m\angle 2 = 2x + 11$ ,  
 $m\angle 3 = 5y - 14$ ,  
 $m\angle 4 = 3y + 8$

