

10.1 – Circle Basics

Use FIGURE 1 to name each of the following.

1. _____	The center.
2. _____	All radii.
3. _____	All chords.
4. _____	The diameter.
5. _____	All points in the interior.
6. _____	All points in the exterior.
7. _____	All tangents.
8. _____	All points of tangency.

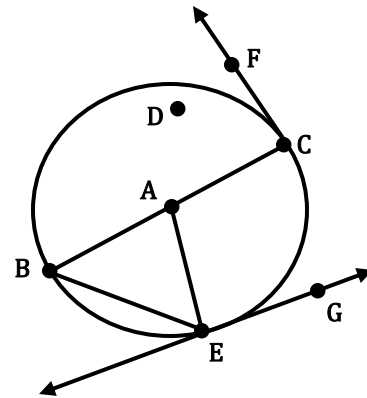


FIGURE 1

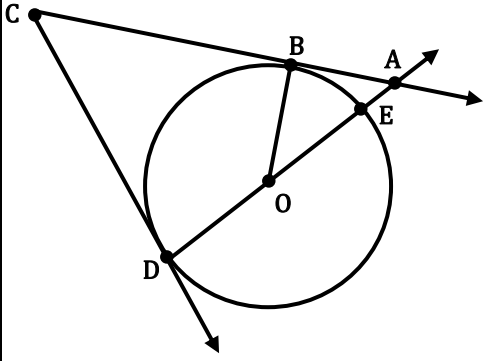
Find the value of 'x' in each of the following.

9. _____	
10. _____	

11. _____	
12. _____	
13. _____	
14. _____	

\overline{AB} and \overline{CD} are tangents of *circle O*. Find each of the following.

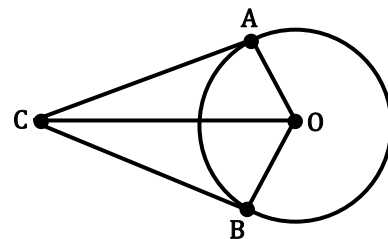
15. _____	If $OB = 6$ and $AB = 8$, then $EA = ?$
16. _____	If $DE = 16$ and $EA = 9$, then $BA = ?$
17. _____	$m\angle ABO = ?$
18. _____	$m\angle ODC = ?$
19. _____	If $m\angle DOB = 120^\circ$, then $m\angle EAB = ?$



In each of the following figures below, \overline{CB} and \overline{CA} are tangent to *circle* O at B and A respectively. Find the indicated measures.

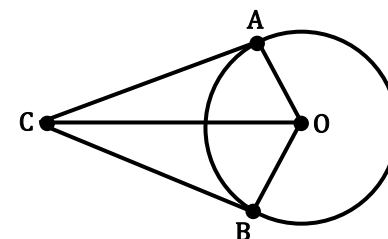
20. $BC =$ _____

If $OC = 15$ and $OB = 9$, then $BC = ?$



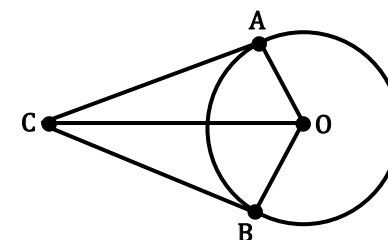
21. $OB =$ _____

If $OC = 3\sqrt{6}$ and $BC = 6$, then $OB = ?$



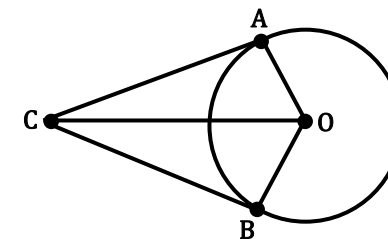
22. $OC =$ _____

If $AO = 6$ and $BC = 8$, then $OC = ?$



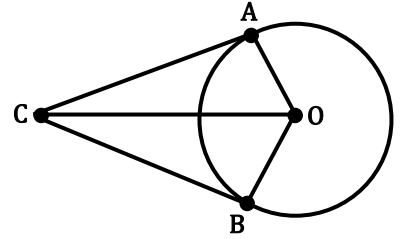
23. $d =$ _____

If $OC = 2\sqrt{17}$ and $BC = 5\sqrt{2}$, then the diameter $= ?$



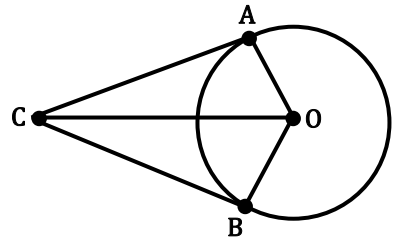
24. $OC =$ _____

If $m\angle OCB = 30^\circ$ and $OB = 4$, then $OC = ?$



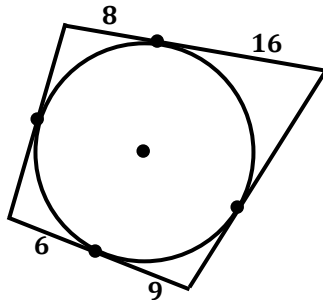
25. $OB =$ _____

If $m\angle COB = 60^\circ$ and $CB = 6\sqrt{3}$, then $OB = ?$



In each diagram, a polygon circumscribes a circle. Find the perimeter of each polygon.

26. $P =$ _____



27. $P =$ _____

