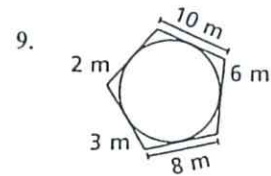
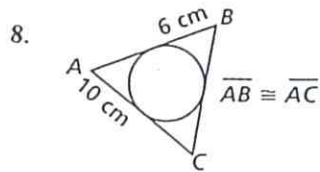
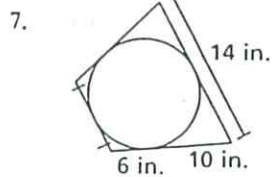
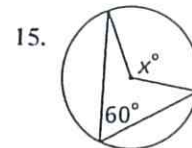
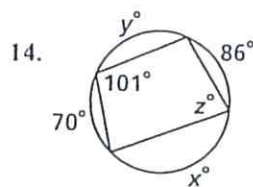
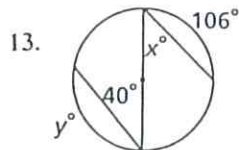
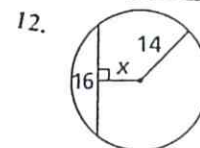
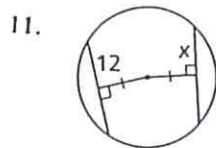
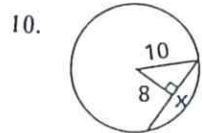


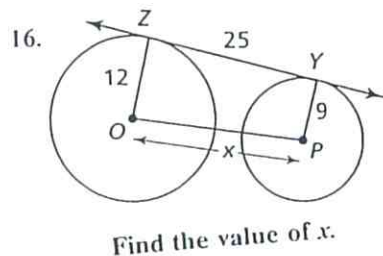
Each polygon circumscribes a circle. Find the perimeter of the polygon.



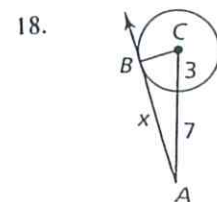
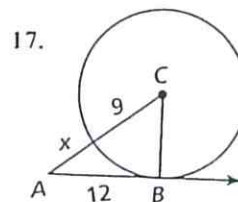
Find the value of each variable. *Show work / justify for each variable found*



In each diagram, $\overleftrightarrow{ZY}$ is tangent to circles O and P .



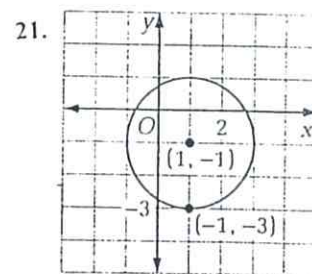
In each diagram, $\overleftrightarrow{AB}$ is tangent to $\odot C$ at B . Find the value of x .



Write an equation for each circle.

19. center $(0, 1)$; $r = 2$

20. center $(-3, 2)$; through $(5, -4)$



Graph each circle.

22. $x^2 + y^2 = 1$

23. $(x + 4)^2 + (y - 3)^2 = 25$