

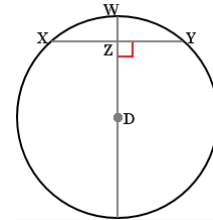
Find the arc length of the circle with the following dimensions to the nearest whole number.

1. radius = 14, Radians = $\frac{3\pi}{7}$

2. radius = 6, Radians = $\frac{13\pi}{3}$

3. radius = 21, Radians = $\frac{7\pi}{5}$

Use the circle to answer the following. Round to the nearest tenth if necessary.



4. Radius = 13

5. Radius = 17

6. Diameter = 28

$\overline{ZD} = 5$

$\overline{XY} = 16$

$\overline{WZ} = 5$

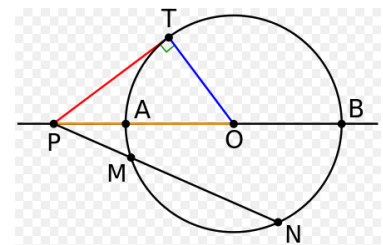
What is \overline{ZY} ?

What is \overline{ZD} ?

What is \overline{ZY} ?

Use the circle to answer the following. Round to the nearest tenth if necessary.

Assume \overline{PT} is a tangent line.



7. $\overline{PO} = 10$

8. $\overline{PA} = 32$

9. Diameter = 34

$\overline{TO} = 6$

$\overline{AO} = 9$

$\overline{PA} = 11$

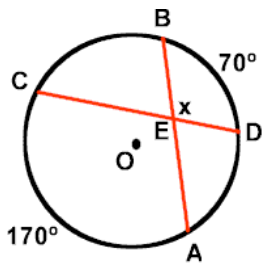
What is \overline{PT} ?

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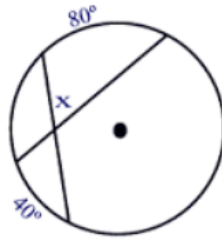
What is \overline{PT} ?

Find x.

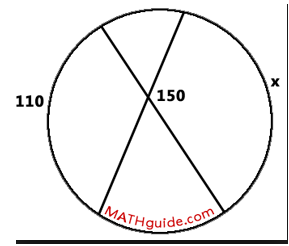
10.



11.

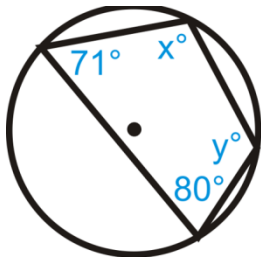


12.

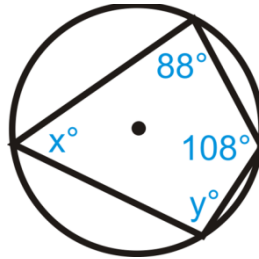


Find x and y.

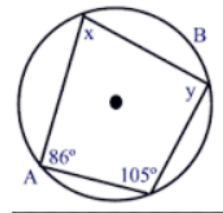
13.



14.

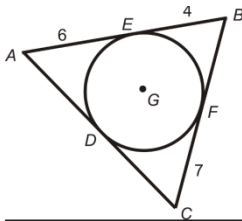


15.

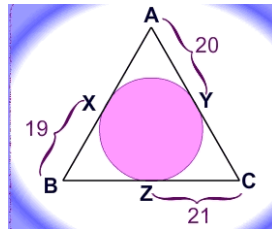


Find the perimeter of the triangle.

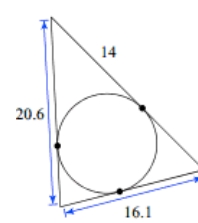
16.



17.



18.



Find the coordinates of the center and the length of the radius of the circles with the following equations.

19. $x^2 + y^2 + 8y = 20$

20. $x^2 - 10x + y^2 = 56$

21. $x^2 + 6x + y^2 - 4y = 51$