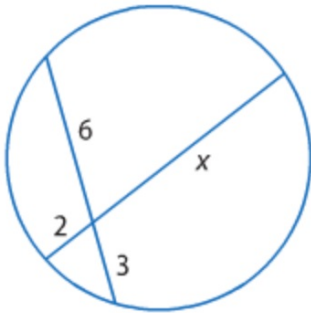


Geometry
Review Ch. 10

Quiz 10.7-10.8 today

Test Ch. 10 Thurs.

32.



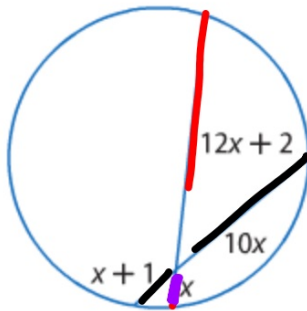
$$2x = 0$$

~~$$x = 0$$~~

$$\begin{array}{r} x - 4 = 0 \\ + 4 \quad + 4 \\ \hline \end{array}$$

$$x = 4$$

33.



$$10x(x+1) = x(12x+2)$$

$$10x^2 + 10x = 12x^2 + 2x$$

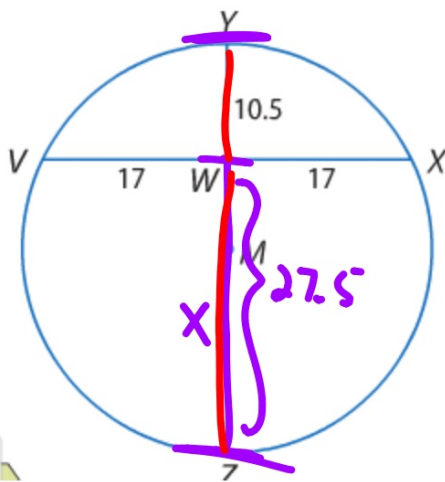
$$\begin{array}{r} -10x^2 - 10x \quad -10x^2 - 10x \\ \hline \end{array}$$

$$0 = 2x^2 - 8x$$

$$0 = 2x(x - 4)$$

Find the diameter of circle M . $yz =$

$$d = 38$$



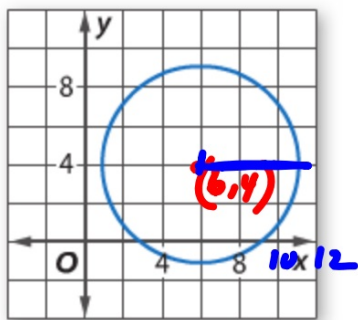
$$10.5x = 17.17$$

$$10.5x = 289$$

$$x = 27.5$$



Write the equation of the circle graphed below.



$$(x-6)^2 + (y-4)^2 = 6^2$$
$$= 36$$

10-8 Equations of Circles

Write the equation of each circle.

35. center at $(-2, 4)$, radius 5

$$(x - (-2))^2 + (y - 4)^2 = 5^2$$

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

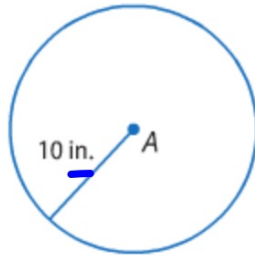
36. center at (1, 2), diameter 14

$$(x-1)^2 + (y-2)^2 = 49$$

Quiz 10.7-10.8

Example 1

Find the circumference of $\odot A$.



$$A = \pi r^2$$

$$C = \pi \cdot d$$

$$C = 20\pi \text{ in}$$

$$C = 62.83 \text{ in}$$

Find the diameter and radius of a circle with the given circumference. Round to the nearest hundredth.

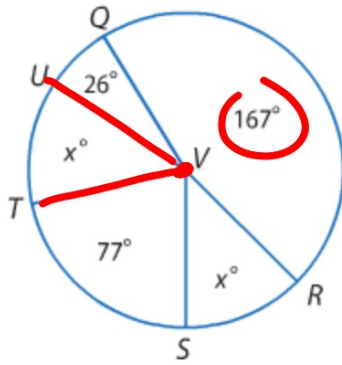
13. $C = 43$ cm

14. $C = 26.7$ yd

Example 2

Find the value of x .

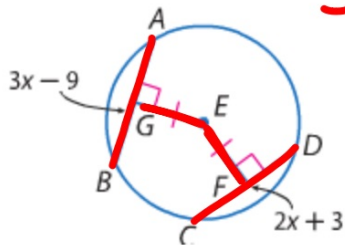
$$167 + 2x + 77 + 26 = 360$$



Example 3

ALGEBRA In $\odot E$, $EG = EF$. Find AB .

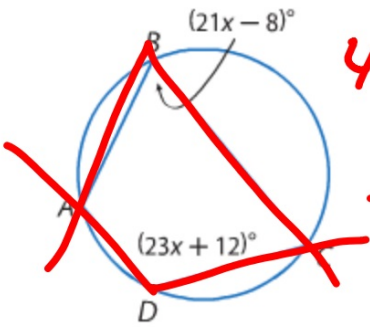
$$3x - 9 = 2x + 3$$



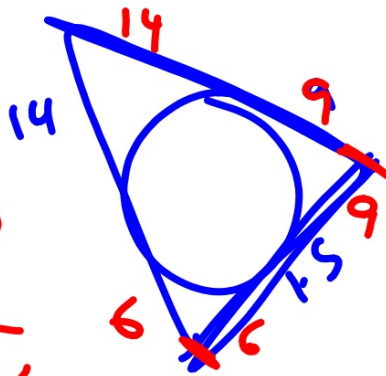
Example 4

Find $m\angle D$ and $m\angle B$.

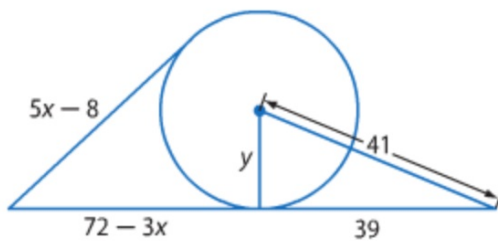
$$104 = 76$$



$$\begin{aligned} 44x + 4 &= 180 \\ -4 &-4 \\ \hline 44x &= 176 \\ x &= 4 \end{aligned}$$



28. Find x and y . Assume that segments that appear to be tangent are tangent. Round to the nearest tenth if necessary.



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

$$y = x + 2 \quad (1, 3)$$

$$(x+4)^2 + (x-1)^2 = 25$$

~~$$x^2 + 8x + 16 + x^2 - 2x + 1 = 25$$~~

$$2x^2 + 6x + 17 - 25 = 0$$

$$\frac{2x^2}{2} + \frac{6x}{2} - \frac{8}{2} = 0$$

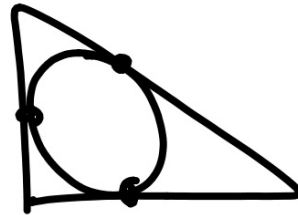
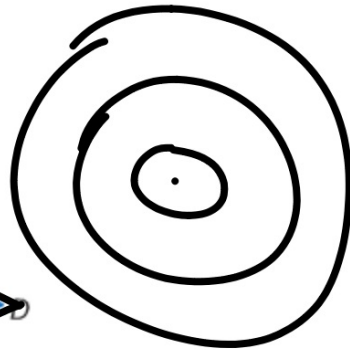
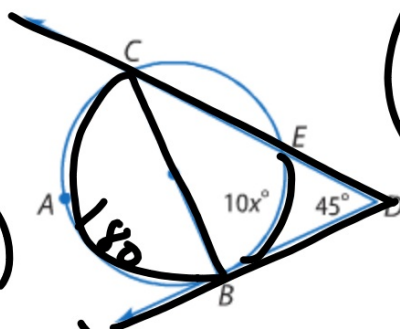
$$x^2 + 3x - 4 = 0$$

$$\begin{array}{r} -4 \\ \times \\ -1 \\ \hline 3 \end{array} \quad (x-1)(x+4) = 0$$

\downarrow \downarrow
 $x=1$ $x=-4$

Example 6

Find the value of x .



$$\text{angle} = \frac{1}{2} (? - ?)$$

$$45 = \frac{1}{2} (180 - 10x)$$

$$45 = 90 - 5x$$

$$\begin{array}{r} 45 = 90 - 5x \\ -90 \quad -90 \\ \hline -45 = -5x \end{array} \quad x = 9$$

33.

