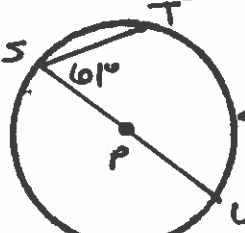
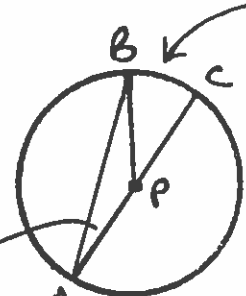
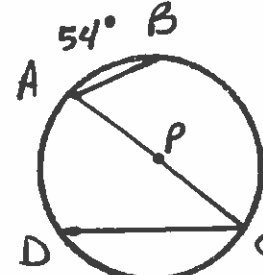


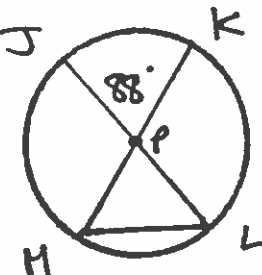
Practice QUIZ 10.4

Find the measure of the indicated angle or arc in $\odot P$.

1.  61° $360 - (61 + 180)$
 $m\widehat{ST} = 119^\circ$
 $m\widehat{ST} \uparrow 180^\circ$

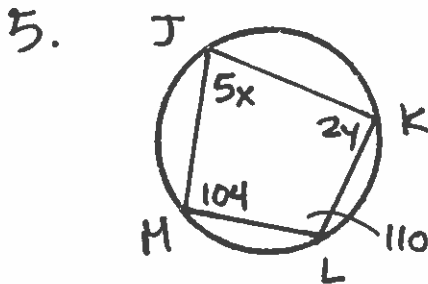
2.  20°
 $m\widehat{AB}$
 $\widehat{ABC} = 180$
 180
 $- 20$
 $\hline 160^\circ = m\widehat{AB}$

 54°
 $m\angle A$ $m\widehat{ABC} = 180$
 180
 $- 54$
 $\hline m\angle A = 126^\circ$

3.  88°
 $m\angle JLM$ $m\widehat{KJM} = 180^\circ$
 180
 $- 88$
 $\hline m\angle JLM = 92^\circ$

10.4 can't

Find the values of the variables



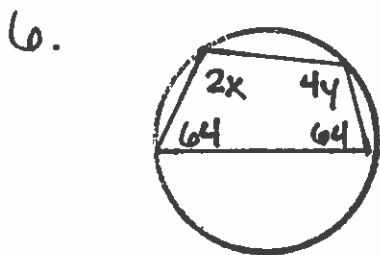
$$5x + 110 = 180$$

$$\frac{5x}{5} = \frac{70}{5} \quad \boxed{x = 14}$$

$$2y + 104 = 180$$

$$2y = 76$$

$$\boxed{y = 38}$$



not drawn to scale.

$$2x + 64 = 180$$

$$2x = 116$$

$$\boxed{x = 58}$$

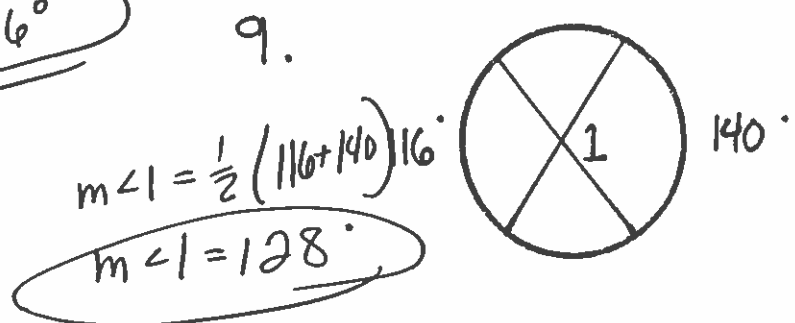
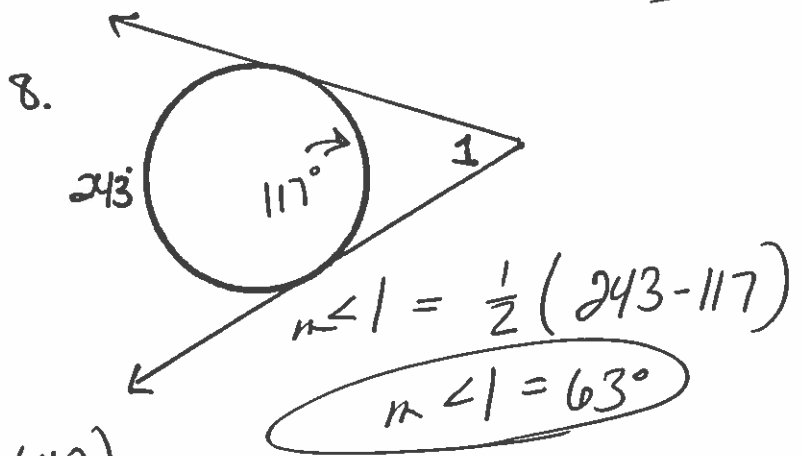
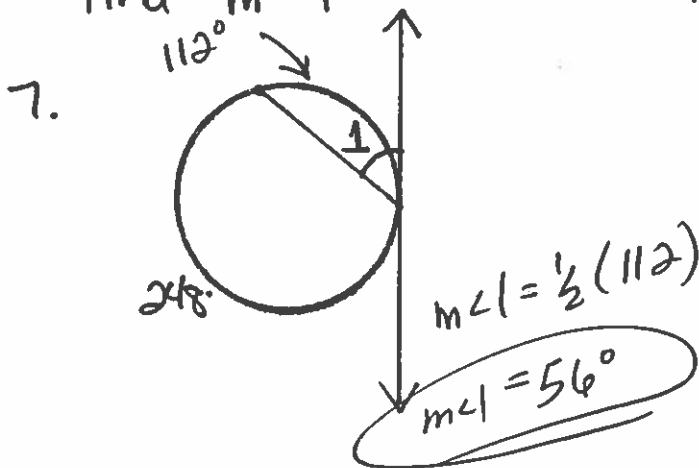
$$4y + 64 = 180$$

$$4y = 116$$

$$\boxed{y = 29}$$

10.5

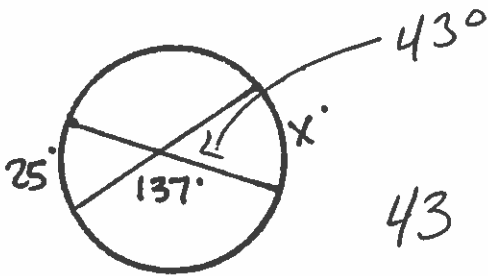
find $m\angle$



10.5 con't

Find the value of x .

10.



$$43 = \frac{1}{2}(x + 25)$$

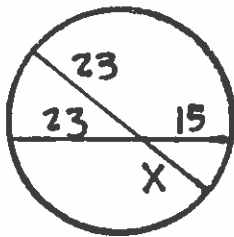
$$86 = x + 25$$

$$61 = x$$

10.6

find the value of x .

11.

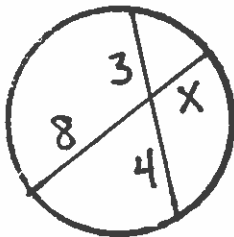


$$x(23) = 23(15)$$

$$23x = 345$$

$$x = 15$$

12.



$$x(8) = 3(4)$$

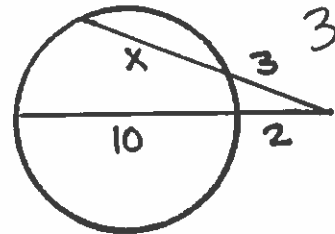
$$8x = 12$$

$$x = 1.5$$

10.6 can't

find the value of x

13.



$$3(x+3) = 2(10+2)$$

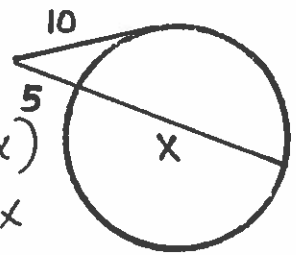
$$3x+9 = 20+4$$

$$3x+9 = 24$$

$$3x = 15$$

$$x = 5$$

16.



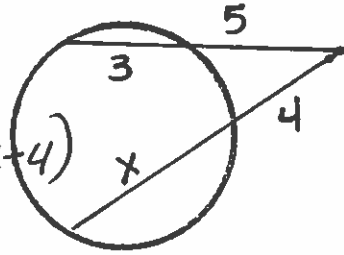
$$10^2 = 5(5+x)$$

$$100 = 25 + 5x$$

$$75 = 5x$$

$$15 = x$$

14.



$$5(3+5) = 4(x+4)$$

$$40 = 4x + 16$$

$$24 = 4x$$

$$6 = x$$

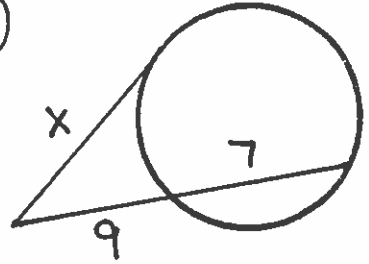
17.

$$x^2 = 9(9+7)$$

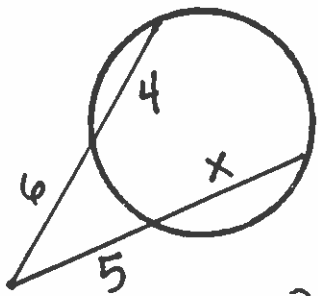
$$x^2 = 9(16)$$

$$x^2 = 144$$

$$x = 12$$



15.

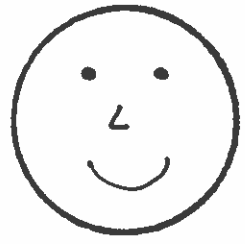


$$5(x+5) = 6(6+4)$$

$$5x+25 = 60$$

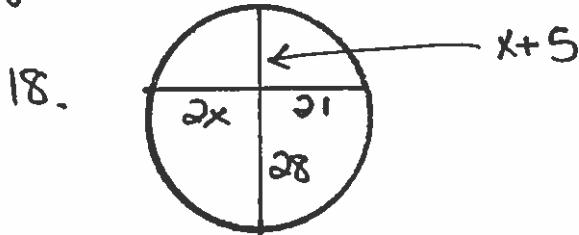
$$5x = 35$$

$$x = 7$$



10.6 cont

find the value of x .



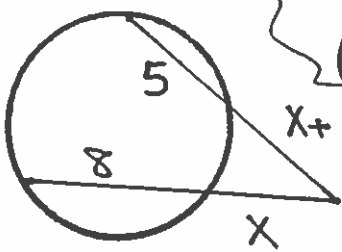
$$28(x+5) = 2x(21)$$

$$28x + 140 = 42x$$

$$140 = 14x$$

$$x = 10$$

19.



$$(x+1)(x+1+5) = x(x+8)$$

$$(x+1)(x+6)$$

$$x^2 + 7x + 6 = x^2 + 8x$$

$$6 = x$$

10.7 write the standard equation of the circle with the center and radius

20. center $(0,0)$ radius 9

$$x^2 + y^2 = 81$$

~~20~~ 21. center $(-3,0)$ radius 5

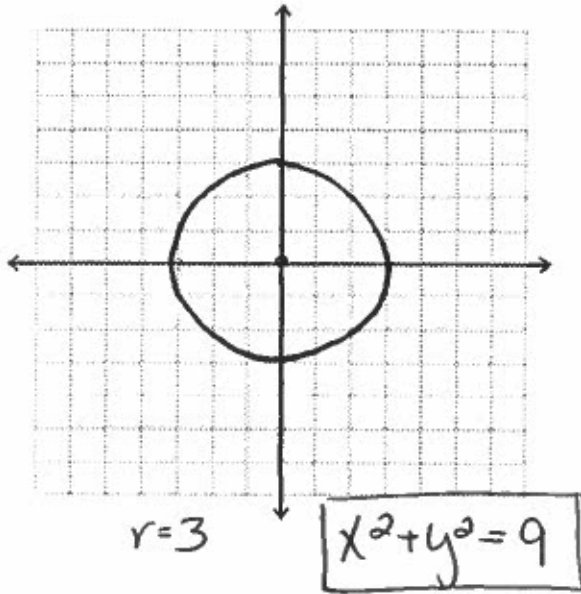
$$(x+3)^2 + y^2 = 25$$

22. center $(-12,7)$ radius 6.

$$(x+12)^2 + (y-7)^2 = 36$$

Write the standard equation of the circle.

23.



24.

