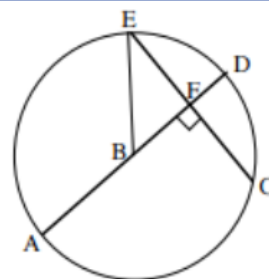


Welcome! Please grab your ISN and have a seat!

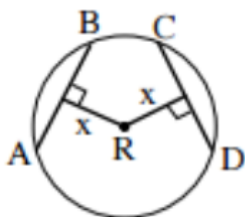
In the following problems, B is the center of the circle.

10. $EC = 14$, $EF = ?$

12. $EF = 10$ $EC = ?$



14. In $\odot R$, if
 $AB = 2x - 7$ and
 $CD = 5x - 22$,
 find x .

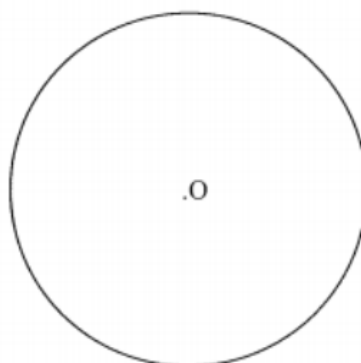


Dec 7-2:21 PM

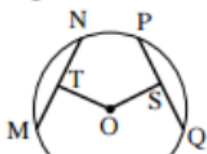
Practice, practice, practice!

1. Label each line or segment on circle O.

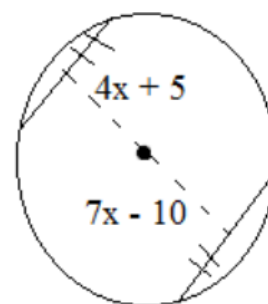
- radius \overline{OP}
- diameter \overline{NR}
- tangent \overline{RL}
- chord \overline{NP}
- secant \overline{XY}
- $\angle NOP$ is called a _____ angle, since its vertex is at point O.



2. In $\odot O$, $\overline{MN} \cong \overline{PQ}$,
 $MN = 7x + 13$, and
 $PQ = 10x - 8$. Find PS.



3.



Dec 8-8:17 AM

TOC pg
67-68
Angles of
a Circle



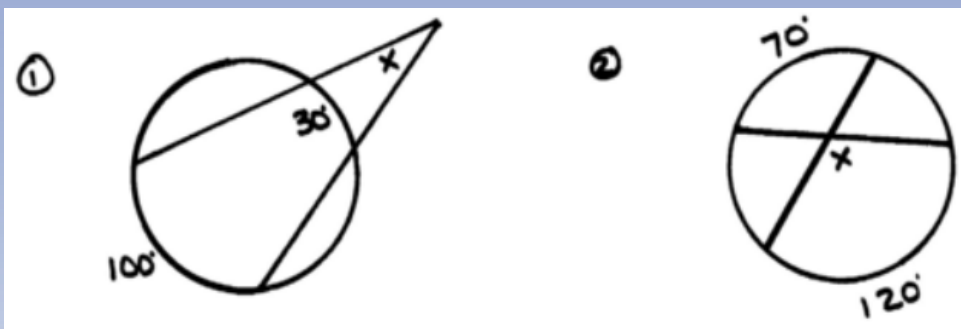
IF THE VERTEX IS...		
ON the circle	IN the circle	OUTSIDE the circle
THE ANGLE IS CREATED BY:		
1. chord & tan 2. sec & tan	1. 2 chords 2. 2 sec.	1. 2 tans 2. 2 sec 3. 1 tan & 1 sec
TO FIND THE ANGLE...		
$x = \frac{1}{2}(\widehat{AB})$	$x = \frac{1}{2}(\widehat{xy} + \widehat{zw})$	$x = \frac{1}{2}(\widehat{PTS} - \widehat{Ps})$ *outside-inside
EXAMPLES		
Find x $x = \frac{1}{2}(124)$ $x = 62^\circ$	Find x $x = \frac{1}{2}(70 + 17)$ $x = \frac{1}{2}(240)$ $y = 120^\circ$	Find x $x = \frac{1}{2}(80 - 20)$ $x = \frac{1}{2}(60)$ $x = 30^\circ$

If the angle is created by 2 tangents, then the tangent are \cong !



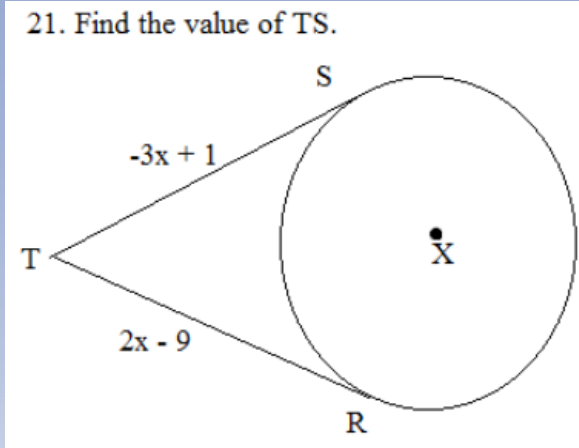
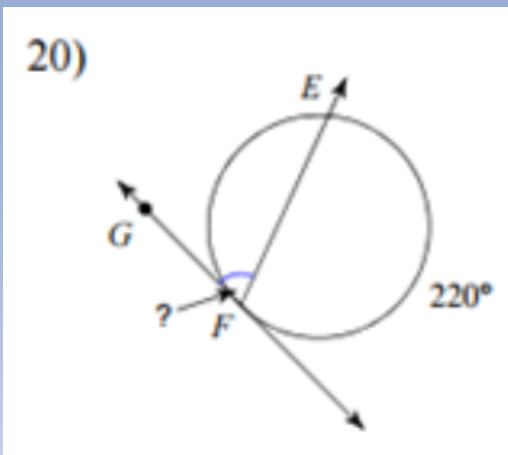
Dec 7-3:09 PM

Ex (pg 67)



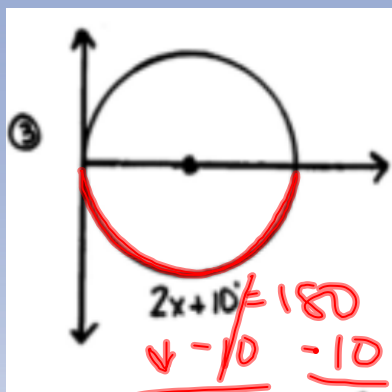
Dec 7-1:55 PM

Welcome! Please grab your ISN and warmup and have a seat!



Dec 8-2:20 PM

Ex (pg 67)

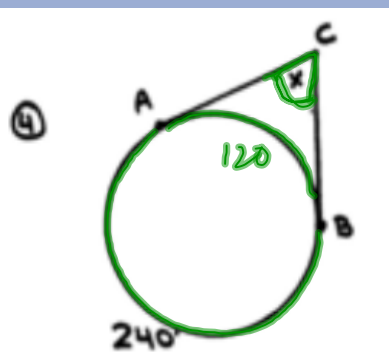


$$2x + 10 = 180$$

$$\downarrow -10 \quad -10$$

$$\frac{2x}{2} = \frac{170}{2}$$

$$x = 85$$



$$360 - 240 = 120$$

$$\frac{1}{2}(240 - 120)$$

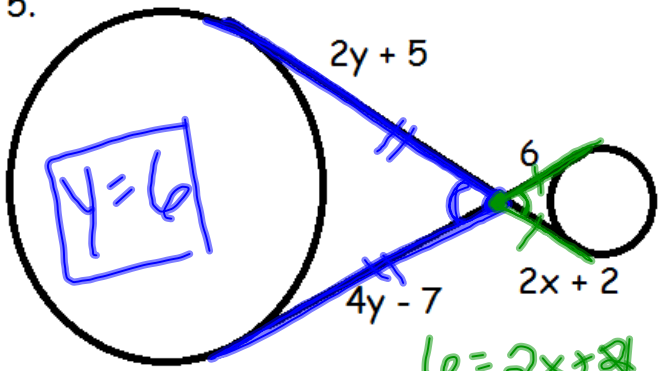
$$\frac{1}{2}(120)$$

$$60$$



Dec 7-2:21 PM

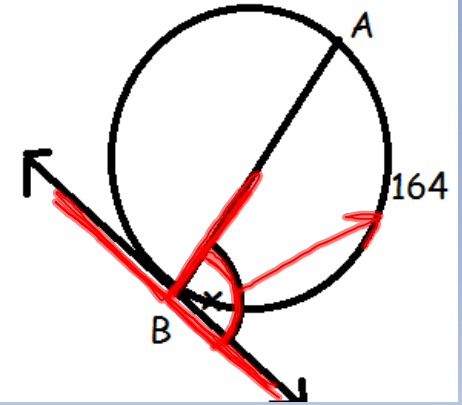
5.



$$\begin{array}{r}
 2y + 5 = 4y - 7 \\
 -2y \quad \downarrow \quad -2y \quad \downarrow \\
 \hline
 +5 = 2y - 7 \\
 +7 \quad \quad \downarrow +7 \\
 \hline
 12 = 2y \\
 \hline
 6 = y
 \end{array}$$

$$\begin{array}{r}
 6 = 2x + 2 \\
 -2 \quad \quad \downarrow -2 \\
 \hline
 4 = 2x \\
 \hline
 2 = x
 \end{array}$$

6.

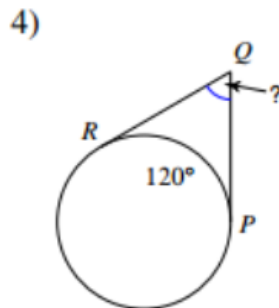
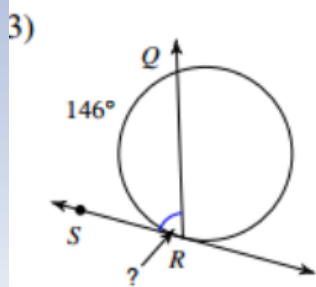
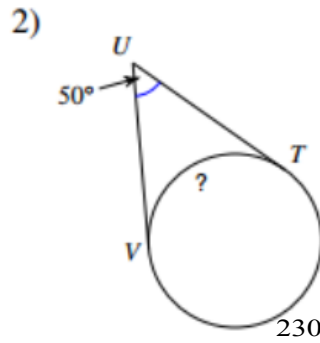
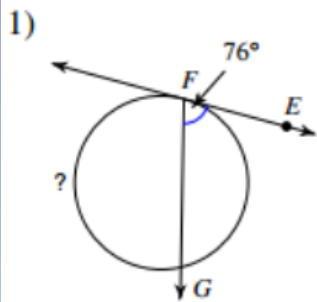


$$\frac{164}{2} = \boxed{82}$$

Dec 7-2:22 PM

Welcome! Please grab your ISN and warmup and have a seat!

Find the measure of the arc or angle indicated.



Dec 8-4:18 PM

$$70 = \frac{1}{2}(75 + x)$$

$$70 = 37.5 + 0.5x$$

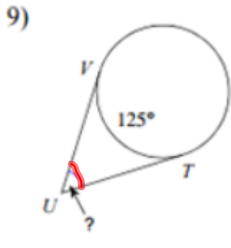
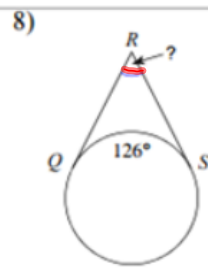
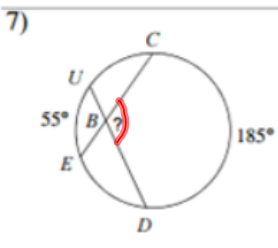
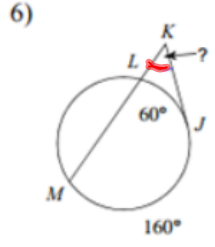
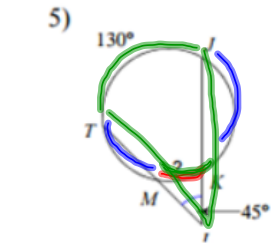
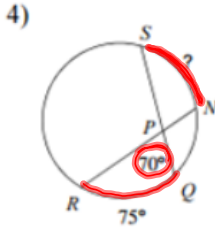
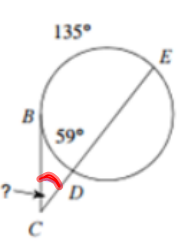
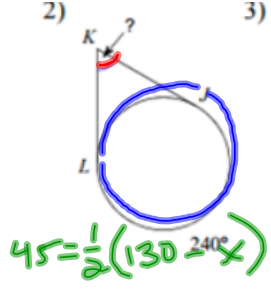
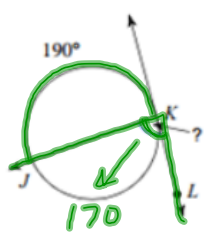
$$32.5 = 0.5x$$

$$\frac{32.5}{0.5} = \frac{0.5x}{0.5}$$

$$X = 65$$

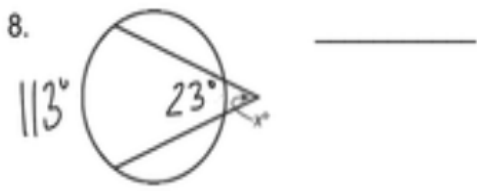
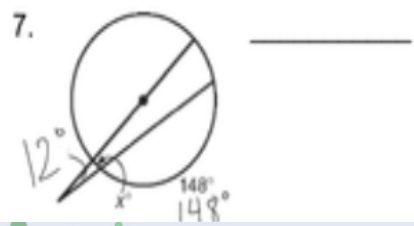
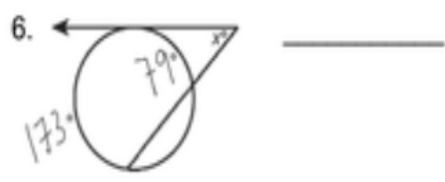
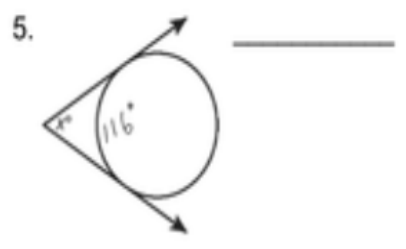
$$\frac{240}{2} = 120$$

$$120 - 170 = -50$$



Dec 8-11:50 AM

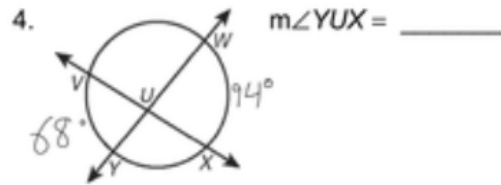
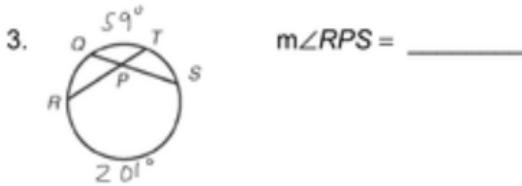
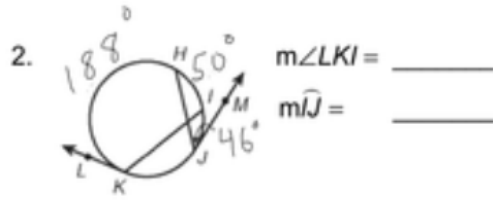
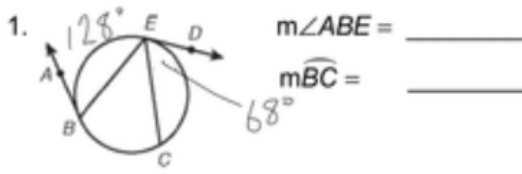
Find the value of x.



Dec 11-8:37 AM

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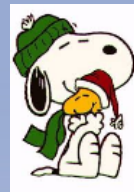
Find each measure.



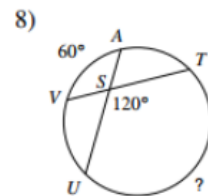
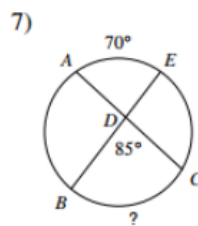
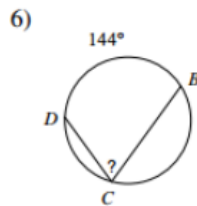
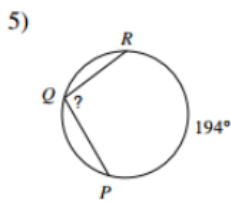
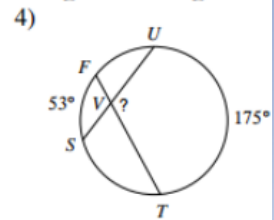
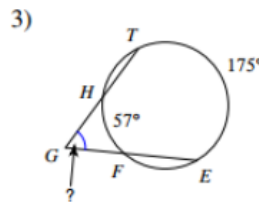
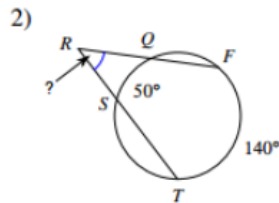
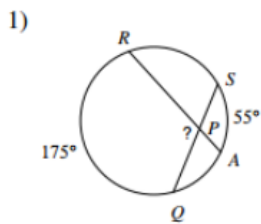
Dec 11-8:37 AM



Homework

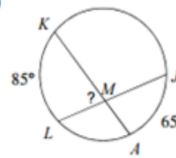


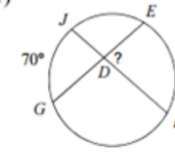
Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

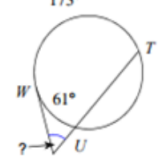


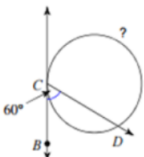
Dec 8-8:32 AM

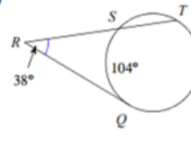
Classwork

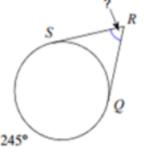
10) 

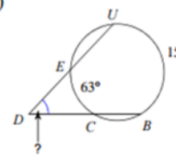
11) 

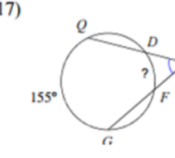
12) 

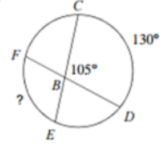
13) 

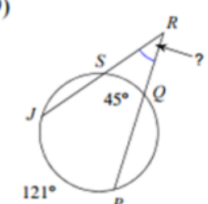
14) 

15) 

16) 

17) 

18) 

19) 

Dec 8-4:17 PM

Glyph Rules

Number	If the answer is greater than...	answer	If the answer is less than...
10	Color the hat red	100	Color the hat black
11	Give snowman a button nose	100	Give snowman a Carrot nose
12	Color belt on the hat green	50	Color the belt on the hat red
13	Draw a scarf on his neck	200	Draw a bow on his neck
14	Color the scarf/bow red	150 180	Color the scarf/bow blue
15	Give him 4 Coal buttons on his stomach	75	Give him 3 coal buttons on his stomach
16	Draw gloves on his hands	50	Draw mittens on his hands
17	Color gloves/mittens green	50	Color gloves/mittens blue
18	Color the Candy Cane red and white	70	Color the Candy Cane green and white
19	Draw 3 snowflakes in the background	50	Draw 4 snowflakes in the background.

Dec 9-8:53 AM