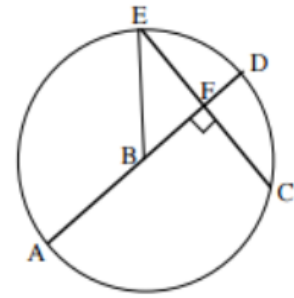


Welcome! Please grab your ISN and warmup and have a seat!

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

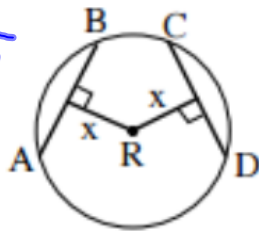
10.  $EC = 14, EF = ?$  **7**

12.  $EF = 10, EC = ?$  **20**



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

**$x = 5$**

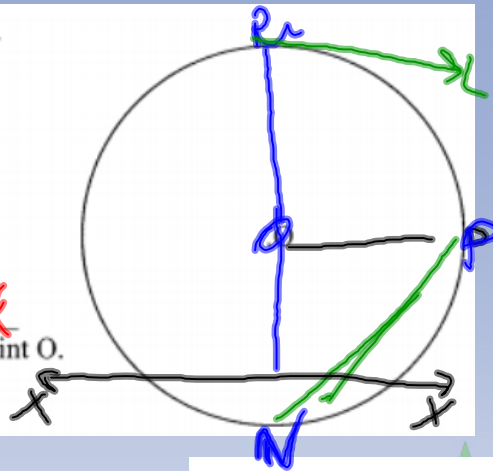


Dec 7-2:21 PM

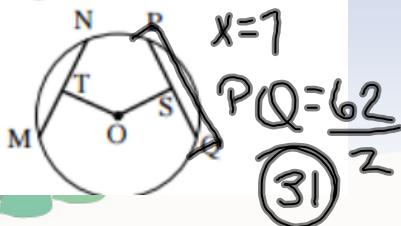
## Practice, practice, practice!

1. Label each line or segment on circle O.

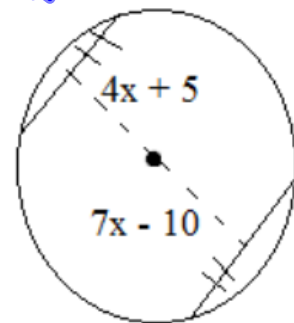
- radius  $\overline{OP}$
- diameter  $\overline{NR}$
- tangent  $\overline{RL}$
- chord  $\overline{NP}$
- secant  $\overline{XY}$
- $\angle NOP$  is called a **central** angle, since its vertex is at point O.



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



3.

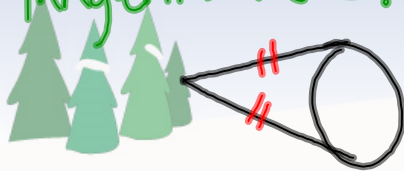


Dec 8-8:17 AM

# TOC pg 65-66 Angles of a

## Circle

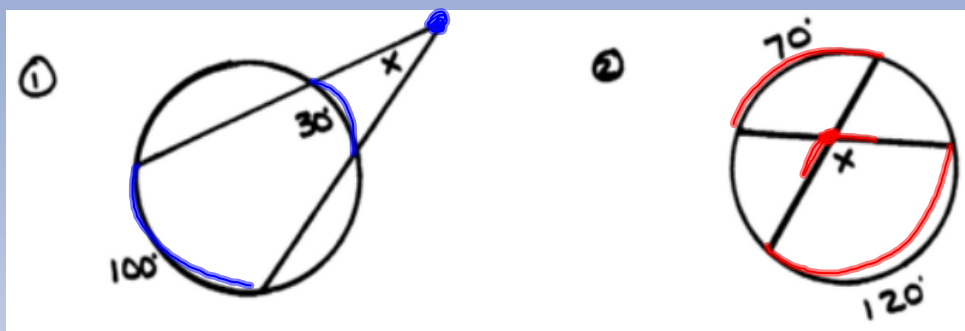
\* If angle is created by 2 tangents, then the tangents are  $\cong$ .



IF THE VERTEX IS...		
ON the circle	IN the circle	OUTSIDE the circle
<b>THE ANGLE IS CREATED BY:</b>		
1. chord & tangent 2. secant & tangent	1. 2 chords 2. 2 secants	1. 2 tangents 2. 2 secants 3. tan & sec
<b>TO FIND THE ANGLE...</b>		
$x = \frac{1}{2}(\widehat{AB})$	$x = \frac{1}{2}(\widehat{xy} + \widehat{zw})$	$x = \frac{1}{2}(\widehat{RTS} - \widehat{PS})$ outside - inside
<b>examples</b>		
Find x  $x = \frac{1}{2}(124)$ $x = 62$	Find x  $x = \frac{1}{2}(170 + 170)$ $x = 170$	Find x  $x = \frac{1}{2}(80 - 20) = \frac{1}{2}(60)$ $30^\circ$

Dec 7-3:09 PM

# Ex (pg 65)



$$x = \frac{1}{2}(100 - 30)$$

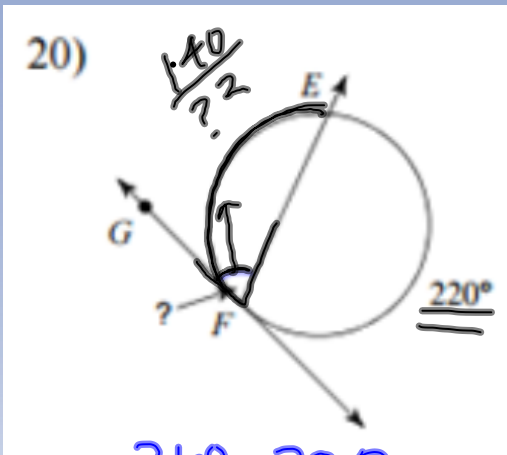
$$x = \frac{1}{2}(70) = 35$$

$$x = \frac{1}{2}(120 + 70)$$

$$x = \frac{1}{2}(190) = 95$$

Dec 7-1:55 PM

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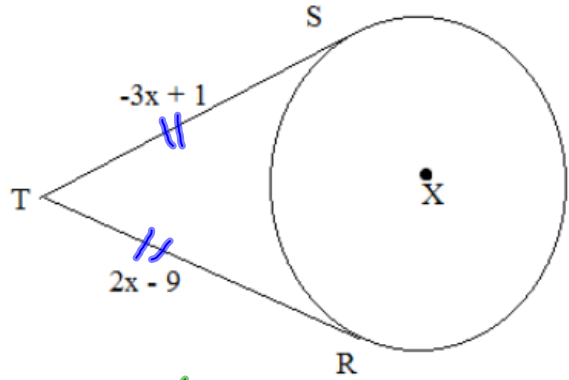


$$360 - 220$$

$$\frac{140}{2}$$

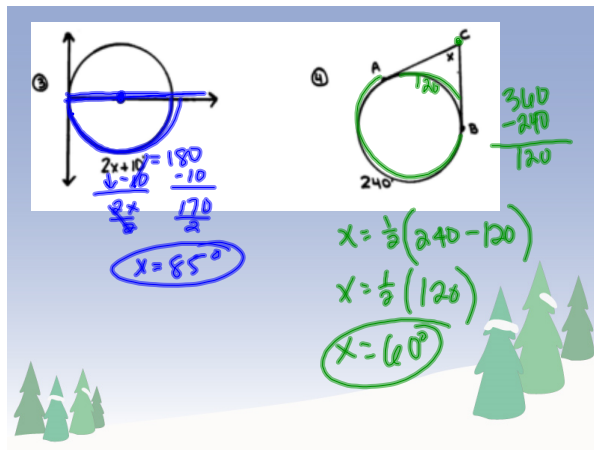
$$X = 70$$

21. Find the value of TS.



$$\begin{array}{r}
 -3x + 1 = 2x - 9 \\
 \downarrow \quad \downarrow \\
 -3x = 2x - 10 \\
 -2x \quad \quad \quad \downarrow \\
 \hline
 -5x = -10 \\
 \hline
 -5 \quad \quad \quad -5 \\
 \hline
 X = 2
 \end{array}$$

Dec 8-2:20 PM



Dec 7-2:21 PM

5.

$2y + 5$   
 $6$   
 $4y - 7$   
 $2x + 2$

$$\begin{array}{r} 2x + 5 \quad 4y - 7 \\ -7x \quad -24 \\ \hline 5 \quad 2y - 7 \\ +7 \quad +7 \\ \hline 12 \quad 4y \\ \hline 2 \quad 4 \\ \hline y = 6 \end{array}$$

$$\begin{array}{r} 6 \quad 2x + 2 \\ -2 \quad -5 \\ \hline 4 \quad 2x - 3 \\ \hline 0 \quad 4x - 5 \\ \hline x = 2 \end{array}$$

Dec 7-2:22 PM

6.

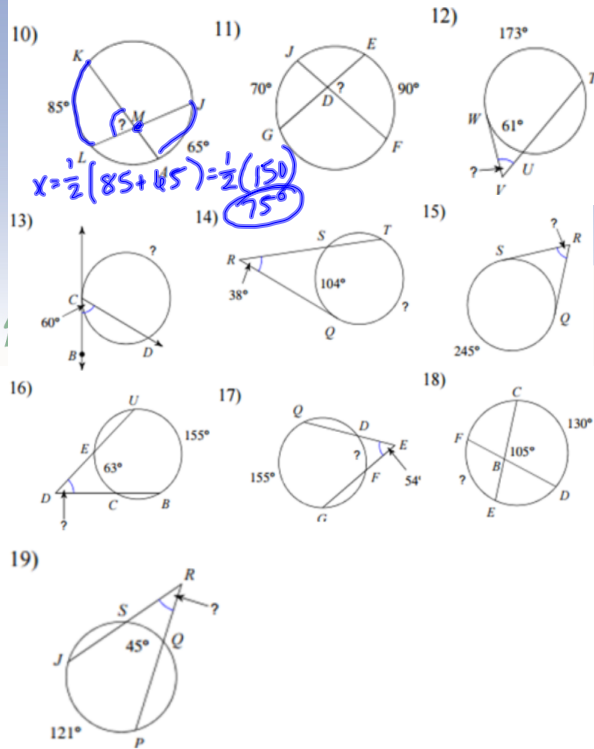
$A$   
 $164$   
 $B$

$$x = \frac{1}{2}(164)$$

$$= 82^\circ$$

Dec 7-2:57 PM

# Classwork



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	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



# Homework



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

- 1) 2) 3) 4) 5) 6) 7) 8)

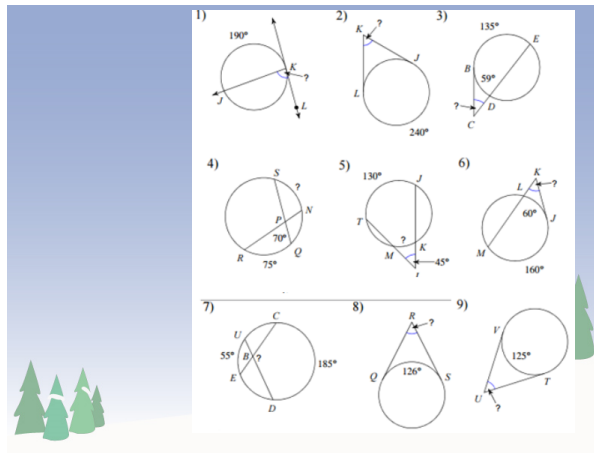
Dec 8-8:32 AM

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Find the measure of the arc or angle indicated.

- 1) 2) 3) 4)

Dec 8-4:18 PM



Dec 8-11:50 AM