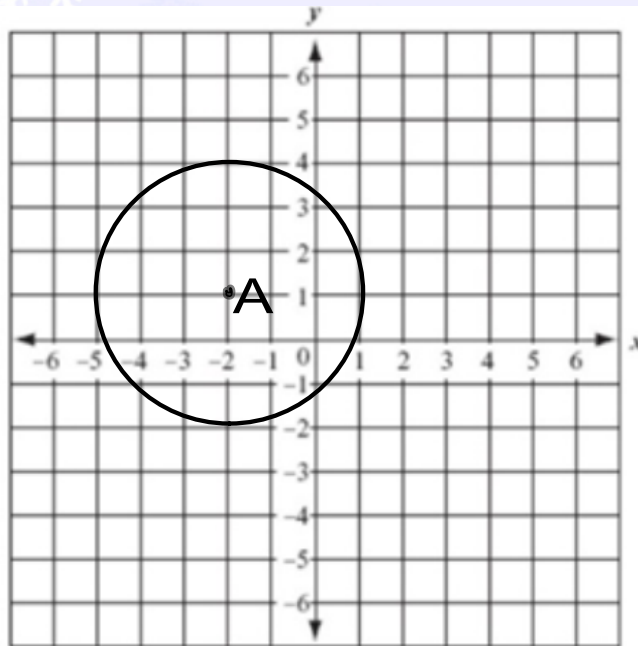


Welcome! Please grab your ISN and warmup and have a seat!

Write the equation of the circle shown.



Nov 30-8:08 AM

Welcome! Please grab your ISN  
and have a seat!

Complete the google form in  
your classroom!

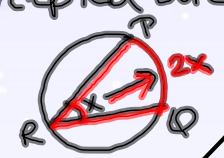


Dec 6-8:17 AM

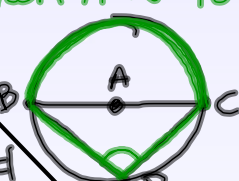
# TOC 61-62 Inscribed Angles

**Inscribed Angles**

\* The measure of an inscribed angle is  $\frac{1}{2}$  its intercepted arc.




\* If an inscribed angle intercepts a semicircle, then it is  $90^\circ$ .



---

\* If a quadrilateral (4 sides) is inscribed in a  $\odot$ , then opposite  $\angle$ 's are Supplementary (add = 180)

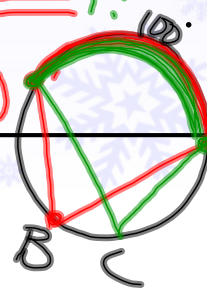
$\angle 1 + \angle 3 = 180$   
 $\angle 2 + \angle 4 = 180$



\* If 2 inscribed  $\angle$ 's intercept the same arc, then they are  $\cong$

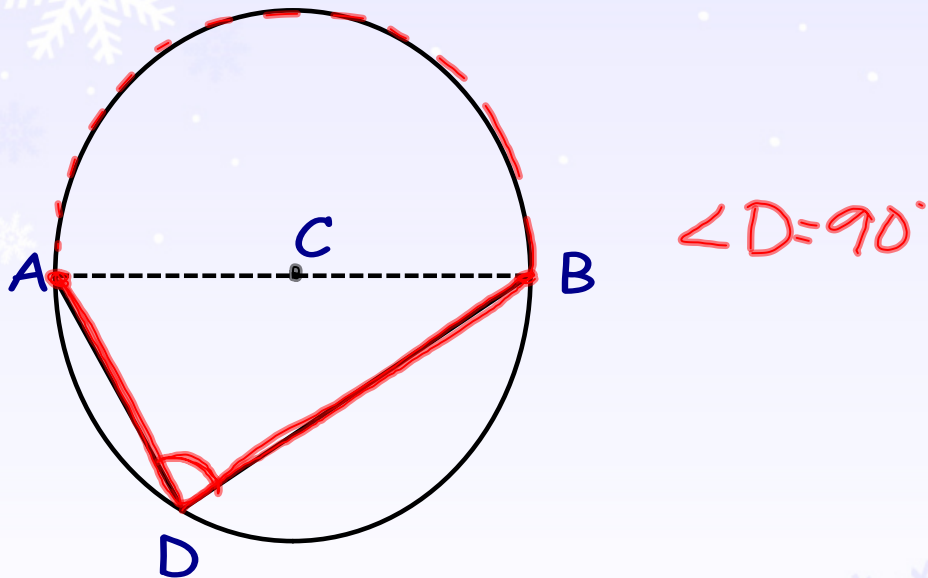
$\angle B = \angle C$   
 $\angle B, \angle C = 50^\circ$

$\angle A = 100^\circ$



Nov 30-8:21 AM

Ex 1 (pg 61) Find  $m\angle D$ .

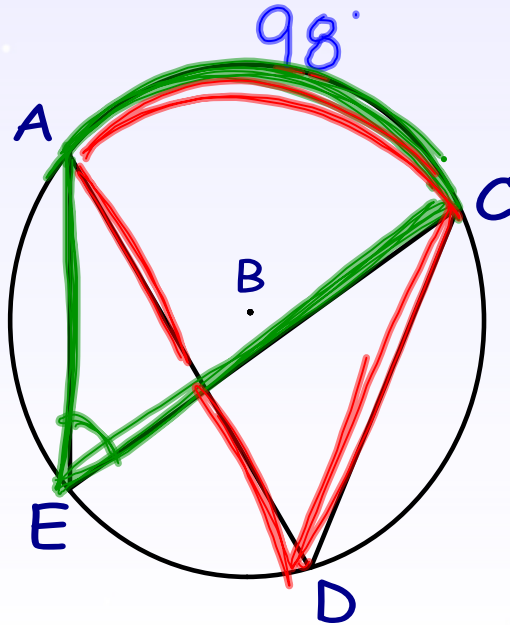


Nov 30-8:24 AM

## Ex 2 (pg 61)

- a) Identify the two inscribed angles to arc AC.  $\angle D \cong \angle E$   
b) If  $\widehat{AC} = 98^\circ$ , find  $m\angle ADC$  and  $m\angle AEC$ .

$49^\circ$



Nov 30-8:26 AM

## Ex 3 (pg 61) Find x.

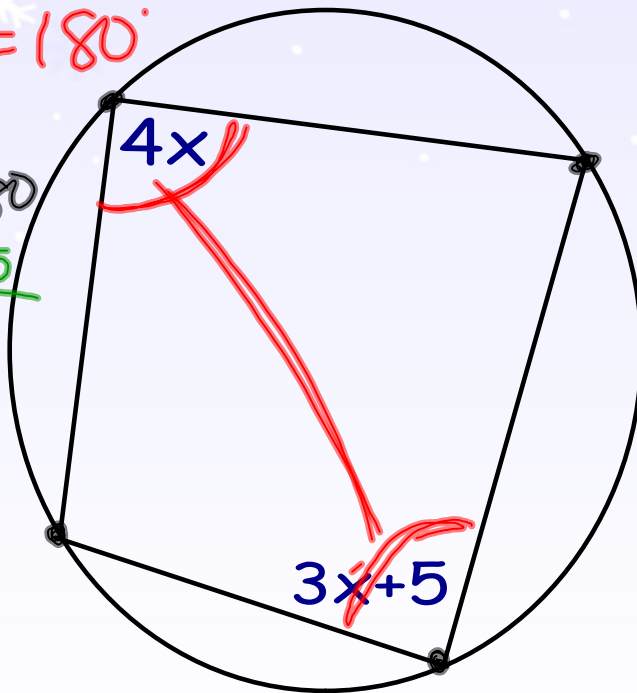
$$4x + 3x + 5 = 180$$

$$7x + 5 = 180$$

$$\begin{array}{r} 7x + 5 = 180 \\ \underline{-5 \quad -5} \\ 7x = 175 \end{array}$$

$$\begin{array}{r} 7x = 175 \\ \underline{\quad \quad 7} \\ x = 25 \end{array}$$

$$\boxed{x = 25}$$

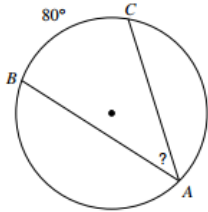


Nov 30-8:29 AM

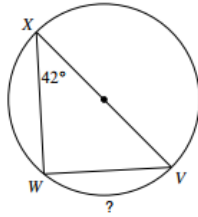
# Homework

Find the measure of the arc or angle indicated.

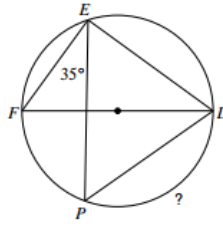
5)



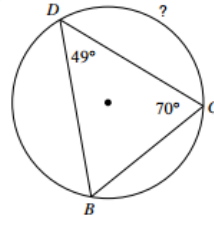
6)



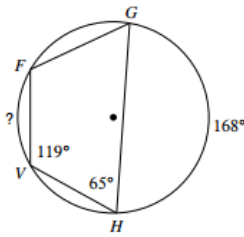
7)



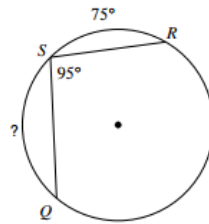
8)



9)

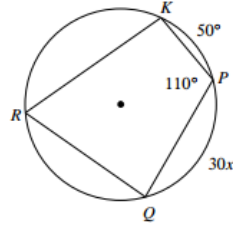


10)



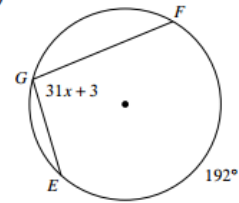
Solve for x.

11)



Solve for x.

12)



Nov 30-8:37 AM

$$9 \text{ cm}^2$$

$$7 \text{ cm}$$

$$\begin{array}{r} \boxed{13} \\ 7 \overline{) 91} \\ \underline{70} \\ 21 \end{array}$$

$$10 + 3 = \boxed{13}$$

$$7 \begin{array}{|c|c|} \hline 70 & 21 \\ \hline \end{array}$$

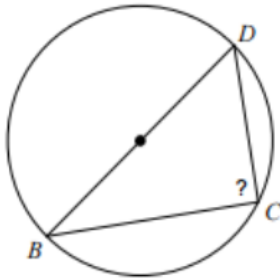
$$\begin{array}{r} 91 \\ -70 \\ \hline 21 \end{array}$$

Dec 6-9:44 AM

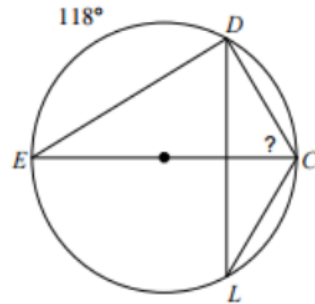
Welcome! Please grab your ISN and warmup and have a seat!

Find the missing measure.

9)

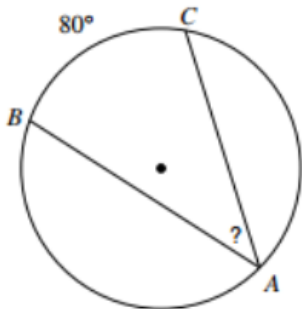


10)

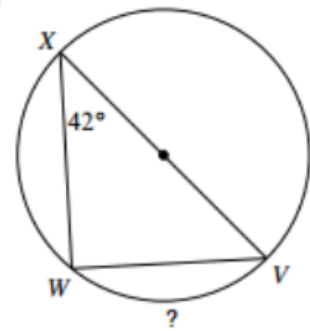


Dec 1-8:05 AM

5)

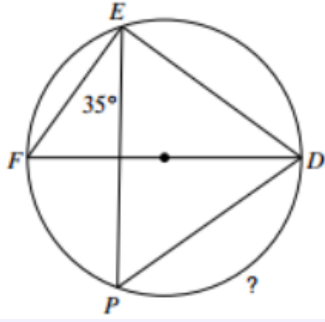


6)

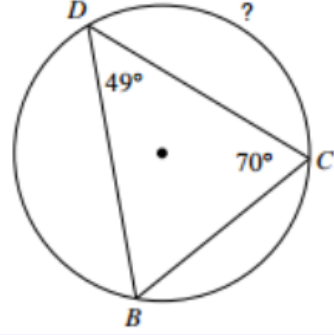


Dec 1-8:05 AM

7)

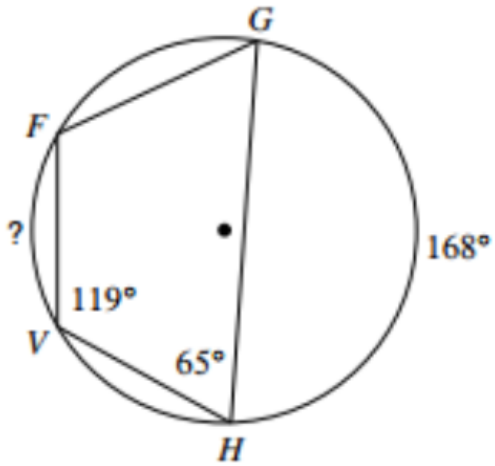


8)

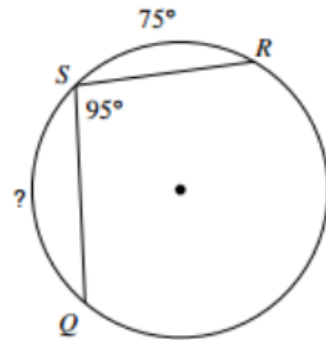


Dec 1-8:05 AM

9)



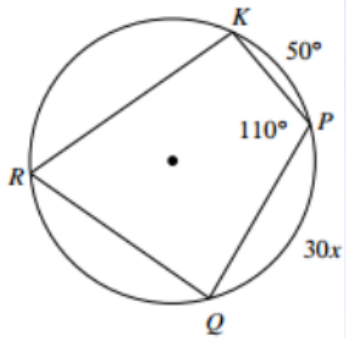
10)



Dec 1-8:06 AM

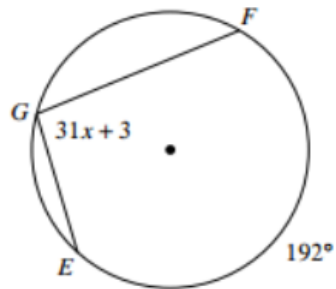
Solve for  $x$ .

11)



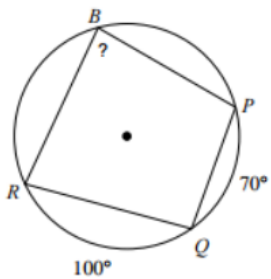
Solve for  $x$ .

12)

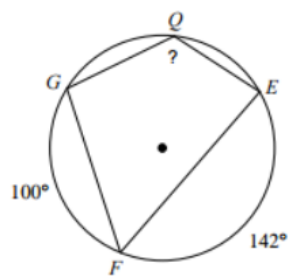


Dec 1-8:07 AM

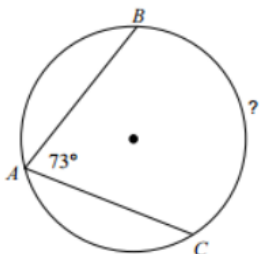
11)



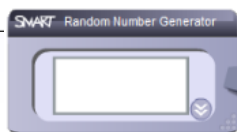
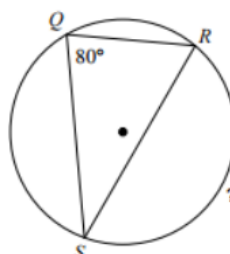
12)



13)

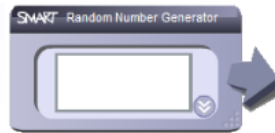
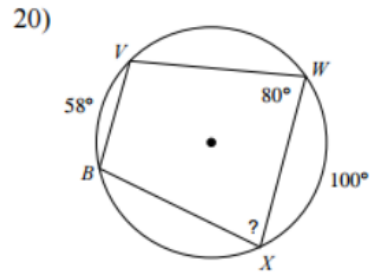
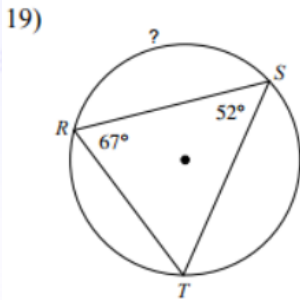
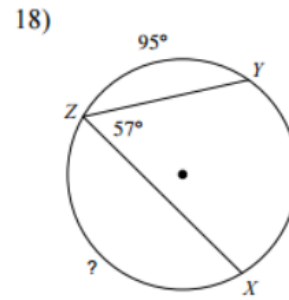
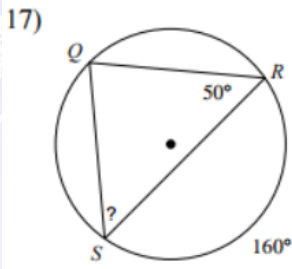


14)



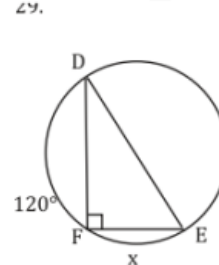
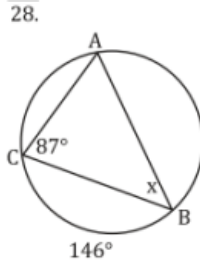
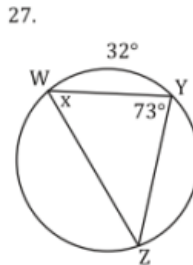
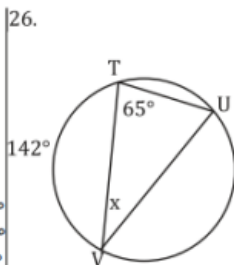
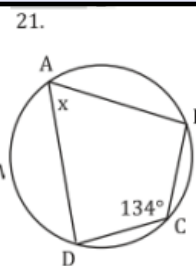
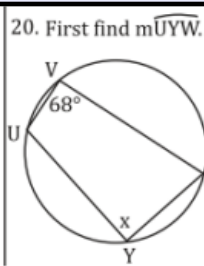
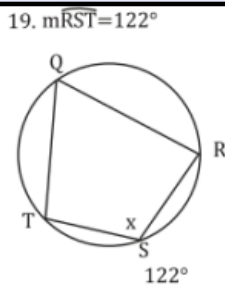
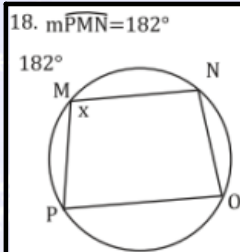
10

Dec 1-8:09 AM



Dec 1-8:13 AM

H  
O  
M  
E  
W  
O  
R  
K

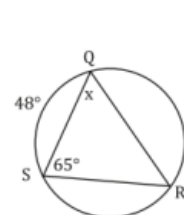


17.  $m\widehat{JK} = 190^\circ$



First find  $m\widehat{KLI}$ .  
 $m\widehat{JK} + m\widehat{KLI} = 360^\circ$   
 $190^\circ + m\widehat{KLI} = 360^\circ$   
 $-190^\circ \quad -190^\circ$   
 $m\widehat{KLI} = 170^\circ$   
 Then find  $m\angle J$ .  
 $m\angle J = 1/2 m\widehat{KLI}$   
 $x = 1/2(170^\circ)$   
 $x = 85^\circ$

25.



First find  $m\angle R$ .  
 $m\angle R = 1/2 m\widehat{QS}$   
 $m\angle R = 1/2(48^\circ)$   
 $m\angle R = 24^\circ$   
 Then find  $m\angle Q$ .  
 Use the triangle sum theorem!  
 $m\angle Q + m\angle R + m\angle S = 180^\circ$   
 $x + 24^\circ + 65^\circ = 180^\circ$   
 $x + 89^\circ = 180^\circ$   
 $-89^\circ \quad -89^\circ$   
 $x = 91^\circ$

Homework  
help  
examples

Dec 1-8:55 AM





Dec 6-9:38 AM



Dec 6-9:38 AM



Dec 6-9:38 AM



Dec 6-9:38 AM



Dec 6-9:38 AM