

157) Center: (3, -14)  
Radius: 4

$$(157) \quad (x-3)^2 + (y+14)^2 = 4^2$$

159) Center: (-16, -1)  
Radius: 1

$$(x-3)^2 + (y+14)^2 = 16$$

161) Center: (10, -15)  
Radius: 2

$$(161) \quad (x-10)^2 + (y+15)^2 = 2^2$$

163) Center: (-1, 1)  
Radius: 7

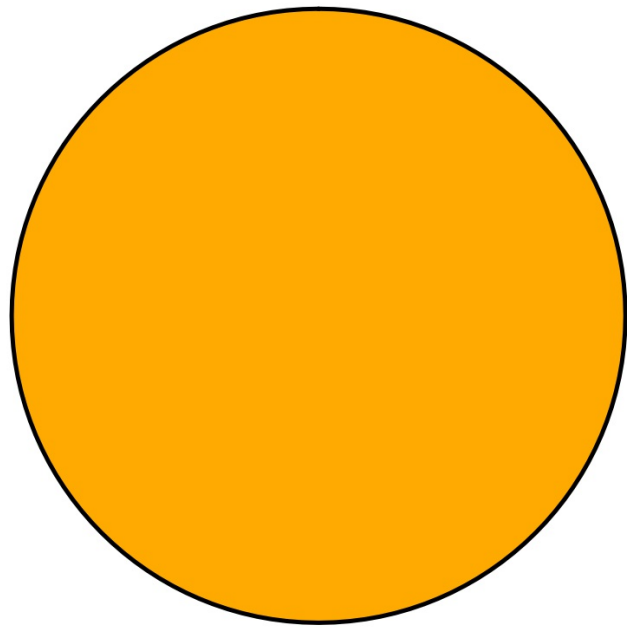
$$(x-10)^2 + (y+15)^2 = 4$$

- Videos/Notes/WSQ

- Q's

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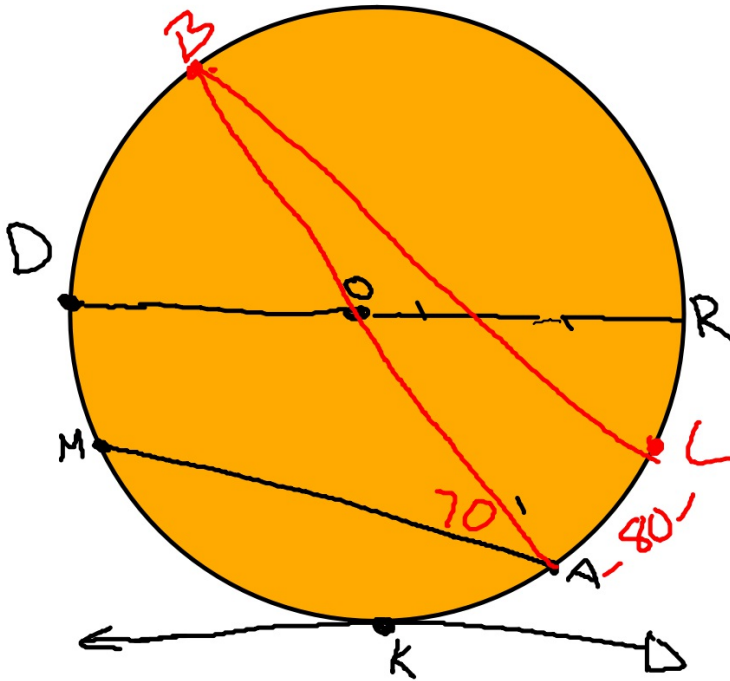
- HW PROBS/Act

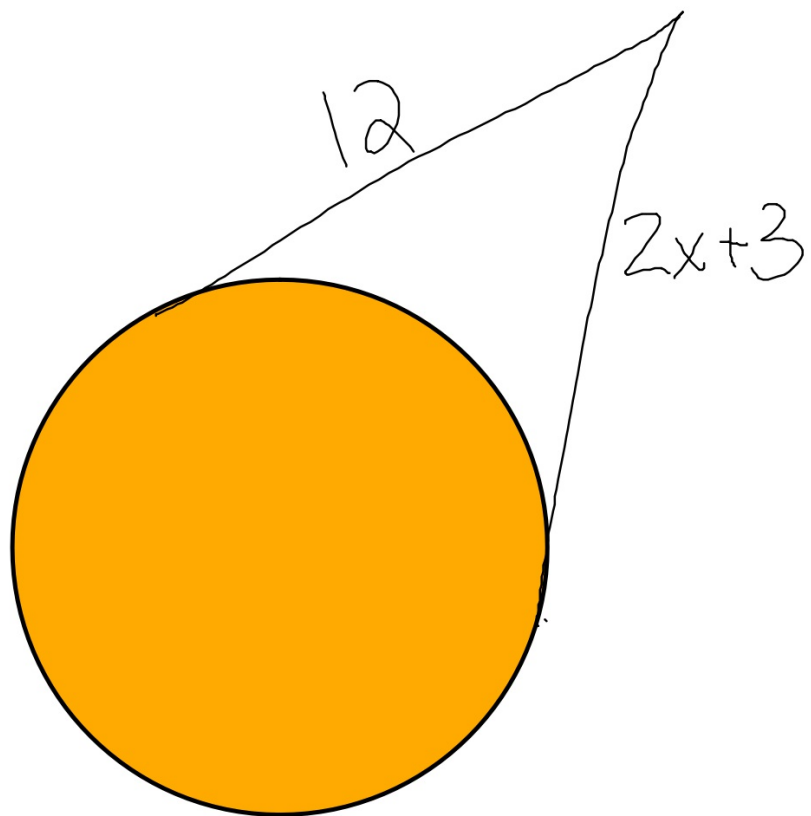


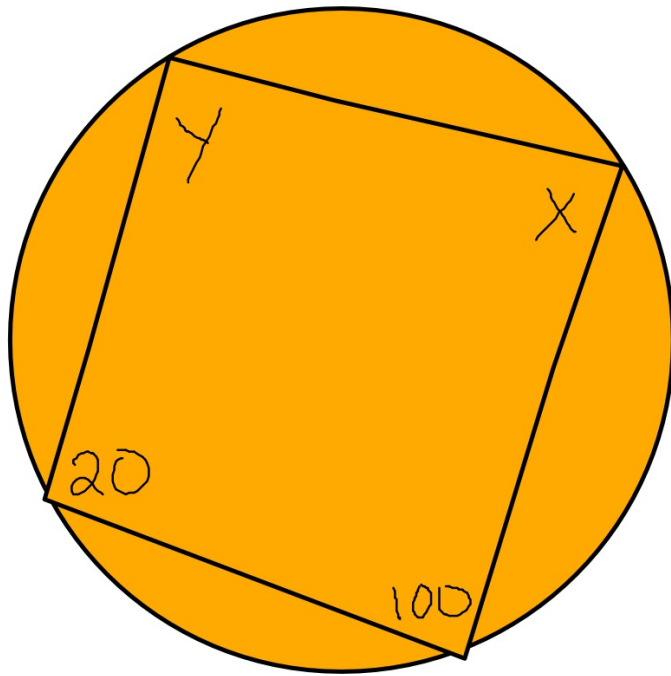
Diameter BT  
Central < A  
Inscribed <

$$\angle ABC = \widehat{AC}$$

$$\angle ABC = \frac{\widehat{AC}}{2}$$







## Error

### Loudoun County Public Schools Outlook WebAccess

There was a problem accessing the site. Try to browse to the site again.

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**Reference number:** 82dac28e-a419-4905-ab55-ffa6a2c2c79

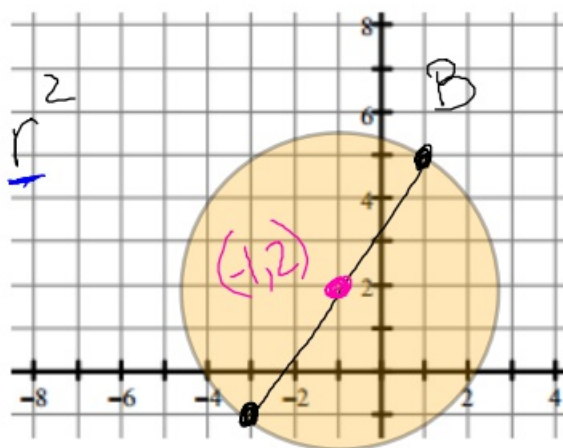
Ex 5] Write the standard equation for a circle with the endpoints of the diameter at A(-3, -1) and B(1, 5).

P. 18

$$(x-h)^2 + (y-k)^2 = r^2$$

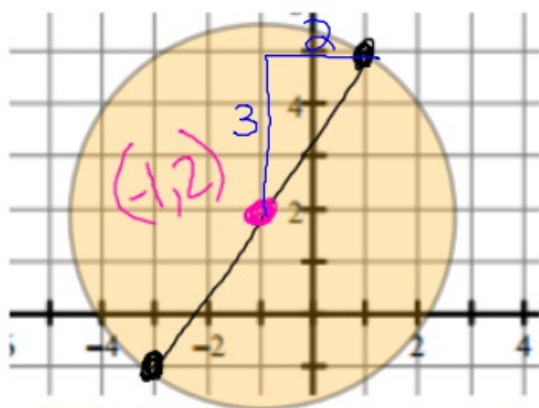
$(h, k)$  = center

$r$  = radius



① Find Center A  
by locating midpoint  $(x-(-1))^2 + (y-2)^2$   
 $(x+1)^2 + (y-2)^2$

② Find length of Radius  
• use distance formula  
• use Pythagorean Theorem



$$2^2 + 3^2 = r^2$$

$$4 + 9 = r^2$$

$$13 = r^2$$

$$(x+1)^2 + (y-2)^2 = 13$$

③ Put together ① and ②



In the figure,  $\overline{PR}$  and  $\overline{QS}$  are diameters of circle U. Find the measure of the indicated arc.

9.  $m\widehat{PQ}$   $42^\circ$

10.  $m\widehat{ST}$  ~~34~~  $74$

11.  $m\widehat{TPS}$  ~~226~~  $(\frac{360}{-4})$   
 $286$   $74$

12.  $m\widehat{RT}$  ~~260~~  $116$

13.  $m\widehat{RQS}$   $318^\circ$   $(\frac{360}{-42})$

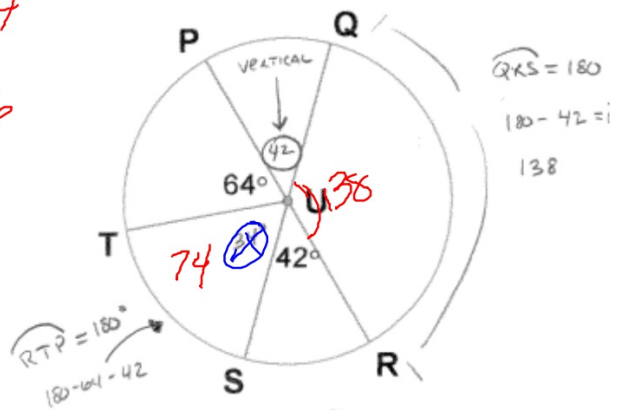
14.  $m\widehat{QR}$   $138^\circ$

15.  $m\widehat{PQS}$  ~~262~~  
 $222$

16.  $m\widehat{TQR}$   $244^\circ$

17.  $m\widehat{PS}$  ~~138~~  $138$

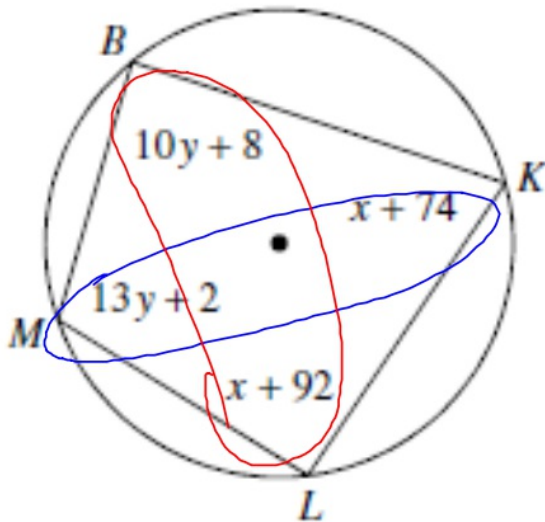
18.  $m\widehat{PTR}$   $180^\circ$



(15)  
 $\begin{array}{r} 180 \\ + 42 \\ \hline 222 \end{array}$

(17) —

92)



$$x + 74 + 13y + 2 = 180$$

$$x + 13y + 76 = 180$$

$$x + 13y = 104$$

$$x + 92 + 10y + 8 = 180$$

$$x + 10y + 100 = 180$$

$$x + 10y = 80$$

$$x + 13y = 104$$

$$x + 10y = 80 \Rightarrow$$

$$\begin{bmatrix} 1 & 13 \\ 1 & 10 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 104 \\ 80 \end{bmatrix}$$

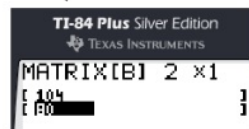
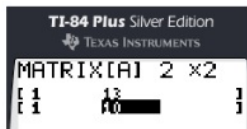
$$A \cdot X = B$$

$$A^{-1} \cdot B = X$$

$$\begin{bmatrix} 0 \\ 8 \end{bmatrix} = X$$

$$x = 0, y = 8$$

MATRIX EDIT



Home Screen

