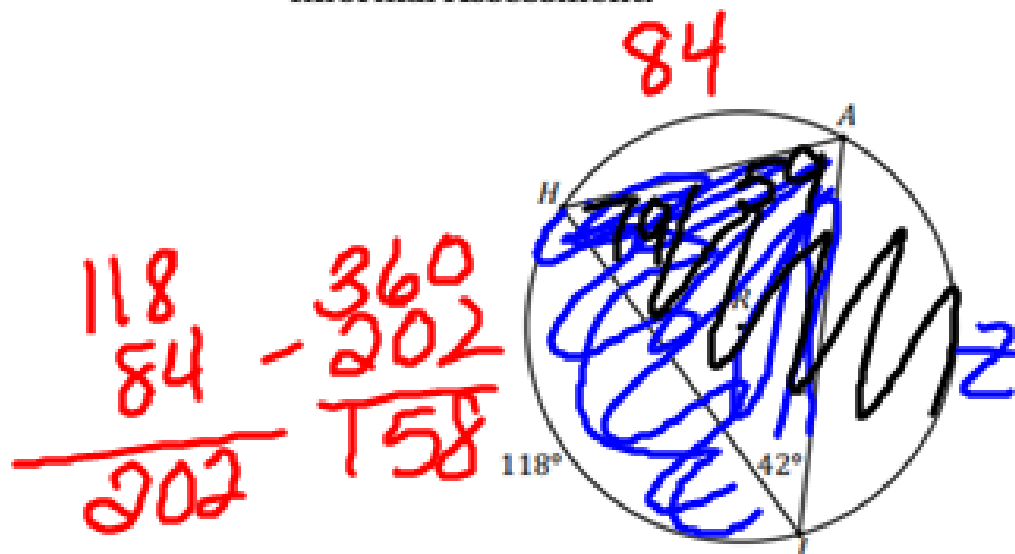


Informal Assessment:



$$\frac{118}{2} = 59^\circ$$
$$+ 42$$

---

$$101 \quad 180$$
$$- 101$$

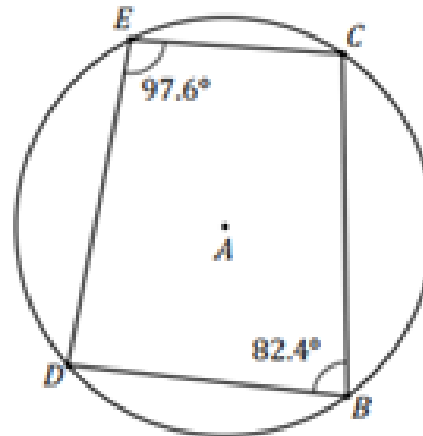
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$$79(2)$$

Which of the following is the measure of  $\widehat{AT}$ ?

- (A)  $118^\circ$
- (B)  $158^\circ$
- (C)  $160^\circ$
- (D)  $202^\circ$

Consider the figure below that represents an inscribed polygon.



What figure is inscribed in the circle?

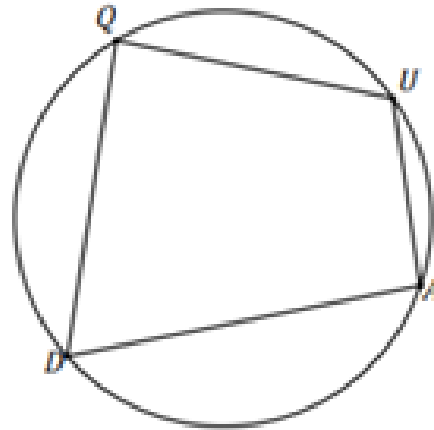
What do you notice about the angles?

quadrilateral  
Supplementary

A polygon is inscribed in a circle when all vertices of the polygon lie on the circle. The circle is circumscribed about the circle.

In an Inscribed Quadrilateral every vertex is on the Circumference of a circle, and the Opposite angles of the quadrilateral are Supplementary.

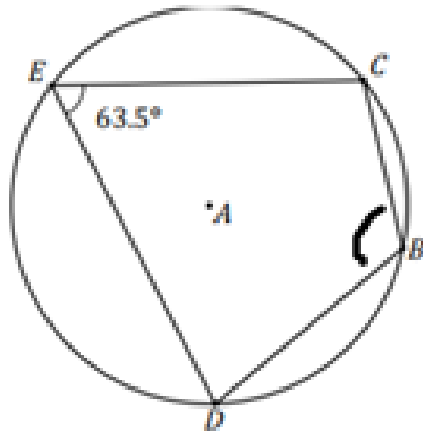
Which pair of angles are supplementary?



$$m\angle Q + m\angle A = 180$$

$$m\angle D + m\angle U = 180$$

Find  $m\angle CBD$  &  $m\widehat{CD}$

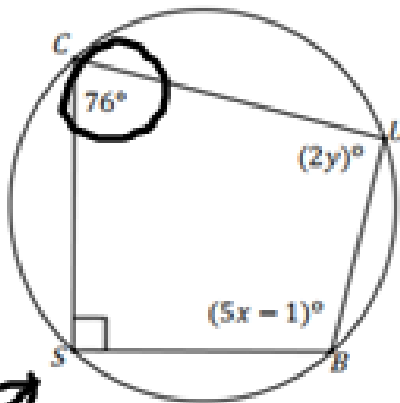


$$\begin{array}{r} 180 \\ - 63.5 \\ \hline 116.5 = m\angle CBD \\ 63.5(2) = 127 \\ = m\widehat{CD} \end{array}$$

Your turn:

Find the value of each variable.

$x = 21$   
 $y = 45$



90

$$\frac{180}{90} = \frac{90}{90}$$

$$5(21) = 105 - 1 = 104$$

$$\begin{array}{r} 180 \\ - 76 \\ \hline 104 \\ + 1 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 21 \\ 5 \overline{) 105} \\ \underline{10} \phantom{5} \\ 05 \\ \underline{05} \\ 0 \end{array}$$

$$2 \sqrt{\frac{90}{45}} = 2 \sqrt{2}$$