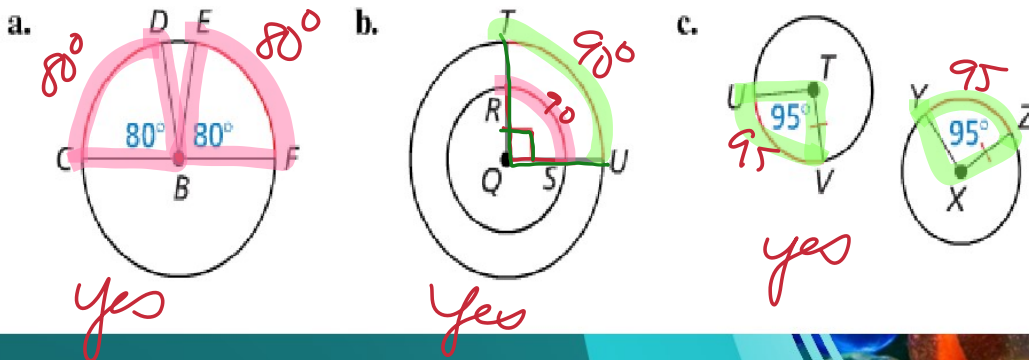




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degree
Tell whether the red arcs are congruent. Explain why or why not.



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Do not remove this barIn Exercises 1 and 2, use the diagram of $\odot D$.1. If $m\widehat{AB} = 110^\circ$, find $m\widehat{BC}$. 110 2. If $m\widehat{AC} = 150^\circ$, find $m\widehat{AB}$.

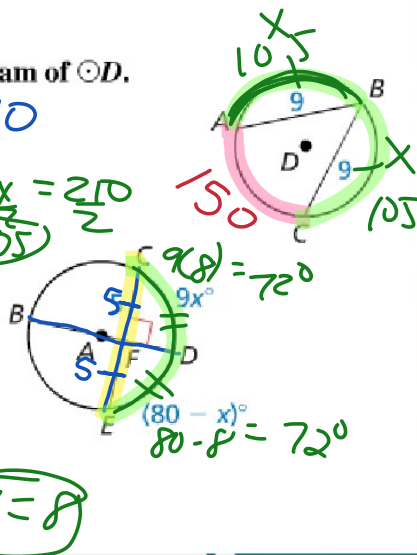
$$-150 + 2x = 360 \quad 2x = 210 \quad x = 105$$

In Exercises 3 and 4, find the indicated length or arc measure.

3. CE $5 + 5 = 10$

$$4. m\widehat{CE} \quad 9x = 80 - x \quad 10x = 80 \quad x = 8$$

$$72 + 72 = 144$$

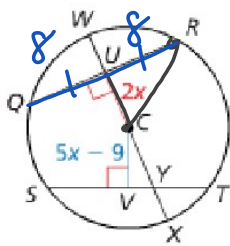


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$$a^2 + b^2 = c^2$$
$$6^2 + 8^2 = c^2$$

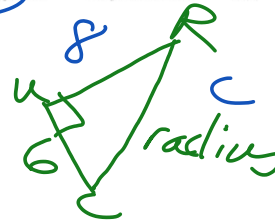
$$\begin{array}{r} 36 + 64 = 100 \\ 100 = 100 \\ \hline 100 = 100 \end{array}$$



In the diagram, $QR = ST = 16$, $OU = 2x$, and $CV = 5x - 9$. Find the radius of $\odot C$.

$$\begin{array}{r} 2x = 5x - 9 \\ -5x \quad -5x \\ \hline -3x = -9 \\ \underline{-3} \quad \underline{-3} \end{array}$$

$$k = 3$$



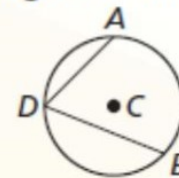
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Theorem 10.10 Measure of an Inscribed Angle Theorem

The measure of an inscribed angle is one-half the measure of its intercepted arc.



$$m\angle ADB = \frac{1}{2}m\widehat{AB}$$

Proof Ex. 37, p. 560



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Theorem 10.14 Tangent and Intersected Chord Theorem

If a tangent and a chord intersect at a point on a circle, then the measure of each angle formed is one-half the measure of its intercepted arc.

