

Geometry
Section 10.3 Homework Worksheet

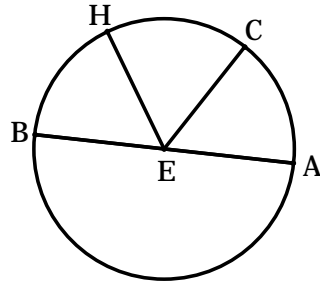
Name: Key

For each question, you must show all of your work and click in your final answer!

1) Given: $\odot E$, $\widehat{BH} \cong \widehat{CA}$

$$\angle HEC = 84^\circ$$

Find: $m\angle CEA$

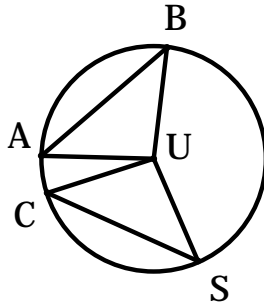


1. 48°

2) Given: $\odot U$, $\widehat{AB} \cong \widehat{CS}$

$$\angle CUS = 52^\circ$$

Find: $m\angle UBA$



2. 64°

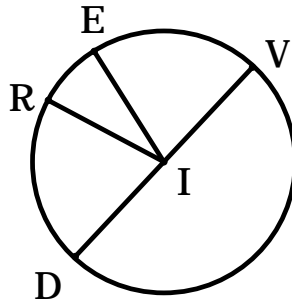
3) Given: $\odot I$, $\widehat{DR} \cong \widehat{EV}$

$$\angle DIR = (3x + 2y)^\circ$$

$$\angle VIE = (7y - 12x)^\circ$$

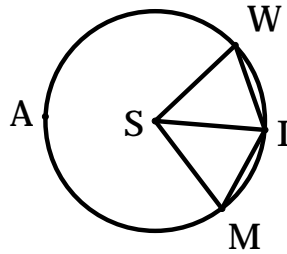
$$\angle RIE = (3x - 9)^\circ$$

Find $m\widehat{RE}$



3. 18°

- 4) Given: $\odot S$, I is the midpoint of \widehat{WM}
 $\angle WSI = (2x + 9)^\circ$
 $\angle MSI = (5x - 30)^\circ$



Find: $m\widehat{WAM}$

4. 290°

Find the measure of an arc that is

- 5) 35% of the circle
 6) $\frac{5}{6}$ of the circle

5) 126°
 6) 300°

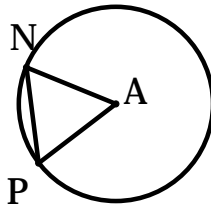
What fractional part of a circle is an arc that measures

- 7) 27°
 8) 108°

7) .075 = 3/40
 8) .3 = 3/10

9. Given: $\odot A$, $m\widehat{NP} = 60^\circ$
 radius of $\odot A = 24$

Find the length of the chord \overline{NP} AND explain how you knew.



Chord = 24

Explain how you know (step by step)