

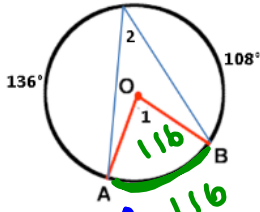
Circle Review

G.C.2, G.C.3

Name: _____

Date: _____ Per.: _____

1. Find the measure of $\angle 1$ and $\angle 2$.



$$m\widehat{AB} = 360 - (136 + 108)$$

$$m\widehat{AB} = 360 - 244 = 116$$

$$116/2$$

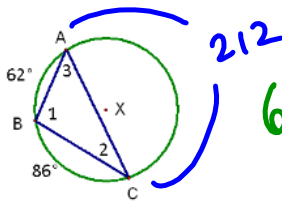
$$58^\circ$$

$m\angle 1 = 116^\circ$ $m\angle 2 = 58^\circ$

$\angle 1$ is a central angle $\angle 2$ is a inscribed angle

Describe the relationship between the angle measures.

2. Find the measures of $\angle 1$, $\angle 2$ and $\angle 3$.



$$62/2$$

$$||$$

$$86/2$$

$$||$$

$m\angle 1 = 106^\circ$ $m\angle 2 = 31^\circ$ $m\angle 3 = 43^\circ$

$$\textcircled{1} 180 - (31 + 43)$$

$$180 - 74 = 106^\circ$$

or

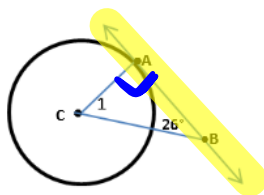
$$360 - (62 + 86)$$

$$360 - 148 = 212$$

$$m\angle 1 = \frac{212}{2} = 106$$

Describe how to find the angle measures.

3. Find the measure of $\angle 1$



$m\angle 1 = 64^\circ$

$$m\angle 1 = 90 - 26 = 64^\circ$$

or

$$m\angle 1 = 180 - (90 + 26)$$

$$180 - 116 = 64^\circ$$

Describe how to find the angle measures.

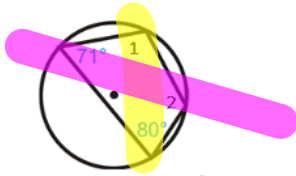
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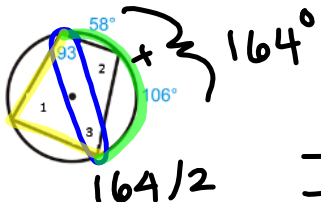
4. Find the measure of $\angle 1$ and $\angle 2$.



$m\angle 1 = 100^\circ$ $\angle 2 = 109^\circ$

Describe how to find the angle measures.

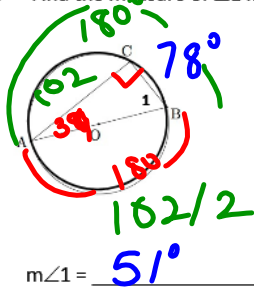
5. Find the measures of $\angle 1$, $\angle 2$ and $\angle 3$.



$m\angle 1 = 82^\circ$ $m\angle 2 = 98^\circ$ $m\angle 3 = 87^\circ$

Describe how to find the angle measures.

6. Find the measure of $\angle 1$ if the $m\angle CB = 78^\circ$



$180 - 78 = 102$

$m\angle 1 = 51^\circ$

Describe how to find the angle measure.

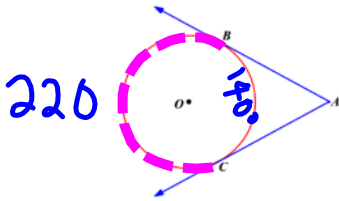
Circle Review

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7. Find the measure of $\angle A$ if the measure of arc CB is 140° .

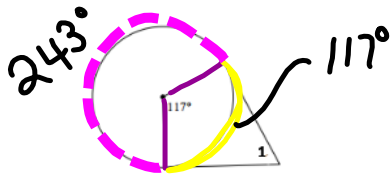


$m\angle A = 40^\circ$

$$\frac{220 - 140}{2} = \frac{80}{2} = 40^\circ$$

Describe how to find the angle measure.

8. Find the measure of $\angle 1$.



$m\angle 1 = 63^\circ$

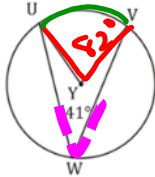
$$\begin{array}{r} 360 \\ - 117 \\ \hline 243 \end{array}$$

$$\frac{L \widehat{ARC} - S \widehat{ARC}}{2} = \frac{243^\circ - 117^\circ}{2} = \frac{126}{2} = 63^\circ$$

Describe how to find the angle measure.

9. Find the measure of $\angle UYV$

$41 \times 2 = 82$



$m\angle UYV = 82^\circ$

Describe how to find the angle measure.

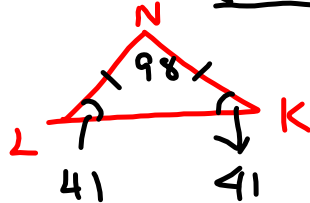
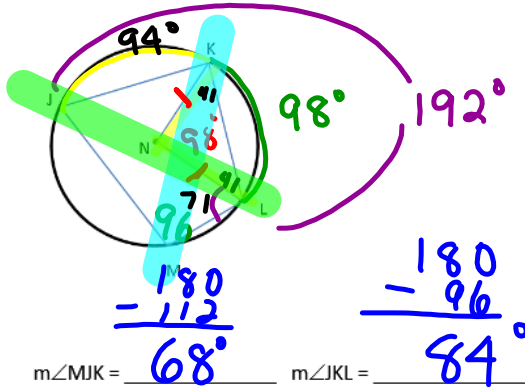
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10. If the measure of $\angle KNL$ is 98° , the measure of arc JKL is 192° and the measure $\angle NLM = 71^\circ$, find the measures of the angles indicate below.



$$\begin{array}{r} 180 \\ - 98 \\ \hline 82 \\ \hline 41 \end{array}$$

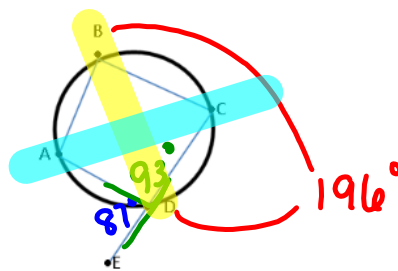
$$\begin{array}{r} 71 \\ 41 \\ \hline 112^\circ \end{array}$$

$$\frac{192}{2} = 96$$

$$96^\circ$$

$m\angle MJK = 68^\circ$, $m\angle JKL = 84^\circ$, $m\angle KLM = 112^\circ$, $m\angle LMK = 96^\circ$

11. If the $m\angle ADE$ is 87° and the measure of arc BCD is 196° , find the measures of the angles indicated below.



$$\begin{array}{r} 180 \\ - 93 \\ \hline 87^\circ \end{array}$$

$$\begin{array}{r} 180 \\ - 98 \\ \hline 82^\circ \end{array}$$

$$\begin{array}{r} 180 \\ - 87 \\ \hline 93^\circ \end{array}$$

$$\frac{196}{2} = 98$$

$$98^\circ$$

$m\angle ABC = 87^\circ$, $m\angle BCD = 82^\circ$, $m\angle CDA = 93^\circ$, $m\angle DAB = 98^\circ$