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$\frac{13}{14}$

Thursday

Name: LO2

Date: 4-24-2011

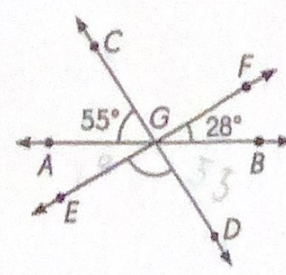
Lesson 12.3 Vertical Angles

Find the unknown marked angles. The diagrams are not drawn to scale.

1. \overleftrightarrow{AB} , \overleftrightarrow{CD} , and \overleftrightarrow{EF} meet at G. Find the measure of $\angle DGE$.

$$\begin{array}{r} 55 \\ + 12 \\ \hline 83 \end{array}$$

$DGE = 97$



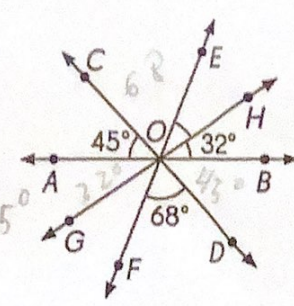
The measure of $\angle DGE = 97^\circ$

2. \overleftrightarrow{AB} , \overleftrightarrow{CD} , \overleftrightarrow{EF} , and \overleftrightarrow{GH} meet at O. Find the measure of $\angle EOH$.

$$\begin{array}{r} 45 \\ + 68 \\ \hline 113 \\ + 32 \\ \hline 145 \end{array}$$

$\angle EOH = 35^\circ$

$180 - 145 = 35^\circ$



The measure of $\angle EOH = 35^\circ$

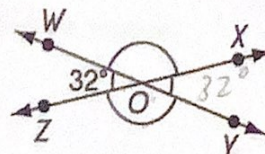
Name: Lo Z

Date: 4-29-2021

4. \overleftrightarrow{WY} and \overleftrightarrow{XZ} are lines.
Find the measures of $\angle YOZ$ and $\angle WOX$.

$m\angle YOZ = \underline{148^\circ}$

$m\angle WOX = \underline{148^\circ}$



$180 - 32 = 148$

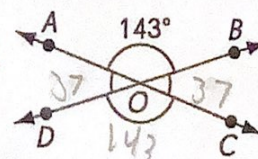
148°

5. \overleftrightarrow{AC} and \overleftrightarrow{BD} are lines.
Find the measures of $\angle AOD$, $\angle COD$, and $\angle BOC$.

$m\angle AOD = \underline{37^\circ}$

$m\angle COD = \underline{143^\circ}$

$m\angle BOC = \underline{37^\circ}$



$180 - 143 = 37$

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3. \overleftrightarrow{AB} and \overleftrightarrow{CD} meet at E and \overleftrightarrow{EF} is perpendicular to \overleftrightarrow{CD} . Find the measure of $\angle AEF$.

$$180 - 52 = 128$$

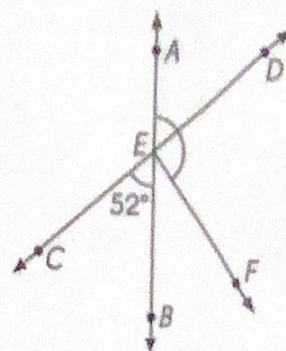
$$128^\circ$$

$$\angle AED = 52^\circ$$

$$\angle FED = 52^\circ$$

$$\angle AEF = 128$$

The measure of $\angle AEF = 128^\circ$



4. \overleftrightarrow{AB} and \overleftrightarrow{CD} meet at O . Find the measure of $\angle BOE$.

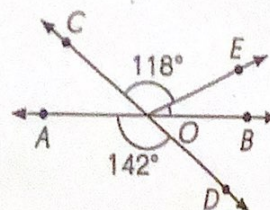
$$180 - 156 = 24^\circ$$

$$\angle BOE = 38^\circ$$

$$\angle BOE = 38^\circ$$

$$\angle BOE = 24$$

The measure of $\angle BOE = 24^\circ$



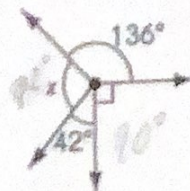
Name: L O Z

Date: 11-19-2021

6. Find the measure of $\angle x$.

$$360 - 136 - 224 - 90 = 134 - 42 = 92^\circ$$

The measure of $\angle x = 92^\circ$



7. \overleftrightarrow{AB} and \overleftrightarrow{CD} are lines. Find the measure of $\angle x$.

$$86 - 28 = 58$$

The measure $\angle x = 58^\circ$



8. \overleftrightarrow{PS} , \overleftrightarrow{QT} , and \overleftrightarrow{RV} are lines.
Find the measures of $\angle UOV$, $\angle TOU$, and $\angle SOT$.

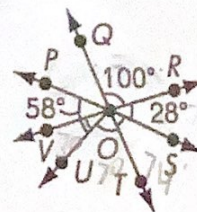
$$180 - 100 = 80$$

$$80 - 28 = 52$$

$$58 - 28 = 30$$

$$58 + 70 = 128$$

$$180 - 128 = 52$$



The measures of $\angle Sot = 52^\circ$

The measures of $\angle UOV = 30^\circ$
The measures of $\angle TOU = 70^\circ$