

Thursday

Name: LOZ

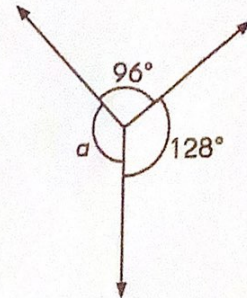
Date: 4-27-2021

Lesson 12.2 Angles at a Point

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

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

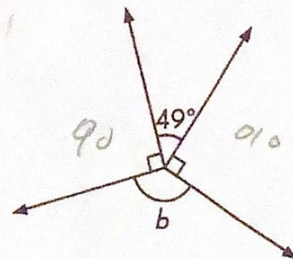
the measure of $\angle a$ is
 136°
 $128 + 96 = 224$
 $360 - 224 = 136$



2. Find the measure of $\angle b$.

$90^\circ + 90^\circ + 49^\circ = 229^\circ$ } $360 - 229 = 131$

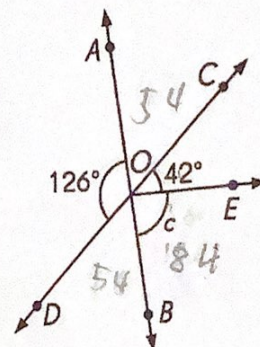
the measure of $\angle b$ is 131°



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



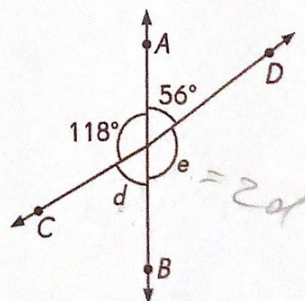
$$180 - 126 = 54$$

$$180 - 54 = 126$$

$$126 - 42 = 84$$

The measure of $\angle c$ is 84° .

4. \overleftrightarrow{AB} is a line. The measure of $\angle e$ is 2 times the measure of $\angle d$. Find the measures of $\angle d$ and $\angle e$.



$$2d + 1d = 180$$

$$\frac{3d}{3} = \frac{180}{3}$$

$$d = 60$$

$$e = 120$$

$$2 \times 60 = 120$$

The measures of $\angle d$ and $\angle e$ are 60° and 120° .