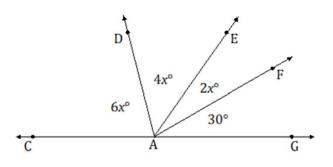
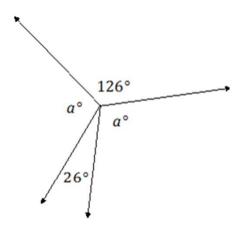
Angle Word Problems Worksheets

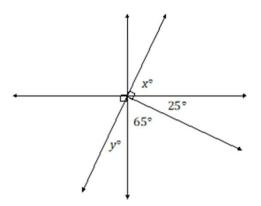
1. Find the measures of $\angle EAF$, $\angle DAE$, and $\angle CAD$



2. Find the measure of *a*.



3. Find the measures of x and y.

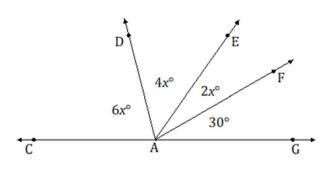


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Angle Word Problems Worksheets

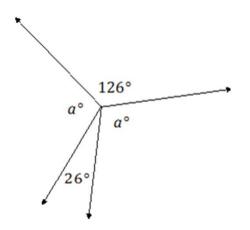
1. Find the measures of $\angle EAF$, $\angle DAE$, and $\angle CAD$

 $\angle GAF, \angle EAF, \angle DAE$, and $\angle CAD$ are angles on a line and their measures have a sum of 180°.



6x + 4x + 2x + 30 = 180 12x + 30 = 180 12x + 30 - 30 = 180 - 30 12x = 150 x = 12.5 $m \angle EAF = 2(12.5^{\circ}) = 25^{\circ}$ $m \angle DAE = 4(12.5^{\circ}) = 50^{\circ}$ $m \angle CAD = 6(12.5^{\circ}) = 75^{\circ}$

2. Find the measure of *a*.



Angles a° , 26°, a° , and 126° are angles at a point and have a sum of 360°.

$$a + 126 + a + 26 = 360$$

$$2a + 152 = 360$$

$$2a + 152 - 152 = 360 - 152$$

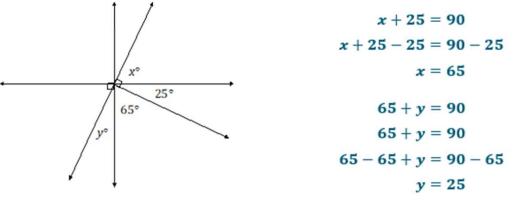
$$2a = 208$$

$$\left(\frac{1}{2}\right)2a = \left(\frac{1}{2}\right)208$$

$$a = 104$$

3. Find the measures of *x* and *y*.

Angles y° and 65° and angles 25° and x° have a sum of 90° .



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