

## 9.1.2 HWK

9-21

A.  $180 = 35 + y + 90$

$$180 = 125 + y$$

$$\begin{array}{r} 180 = 125 + y \\ -125 \quad -125 \\ \hline \end{array}$$

$$\boxed{55^\circ = y}$$

Right Triangle

B.  $180 = 55 + 65 + x$

$$180 = 120 + x$$

$$\begin{array}{r} 180 = 120 + x \\ -120 \quad -120 \\ \hline \end{array}$$

$$\boxed{60^\circ = x}$$

Acute Triangle

9-22

A.  $180 - 61 = 119$

$$m\angle 6 = 119^\circ$$

B.  $m\angle 8 = 48^\circ$

C.  $180 - 137 = 43$

$$m\angle 8 = 43^\circ$$

9-23

On graph  $y = 2x - 6$

9-24

There is negative association. (See graph)

9-25

A.  $\begin{array}{r} 15 \\ \times 18 \\ \hline \end{array}$  She will need 270 sqft of carpet

$$\begin{array}{r} 120 \\ 150 \\ \hline \end{array}$$

$$270$$

B.  $270 \div 3 = 90$  She will need 30 sqyds

$$90 \div 3 = 30$$

$$\boxed{4-26} \quad A. 6x + 5y = 20$$

$$\begin{array}{r} -6x \\ \hline \end{array} \quad \begin{array}{r} -6x \\ \hline \end{array}$$

$$\frac{5y}{5} = \frac{-6x + 20}{5 \quad 5}$$

$$\boxed{y = -\frac{6}{5}x + 4}$$

$$B. 4x - 8y = 16$$

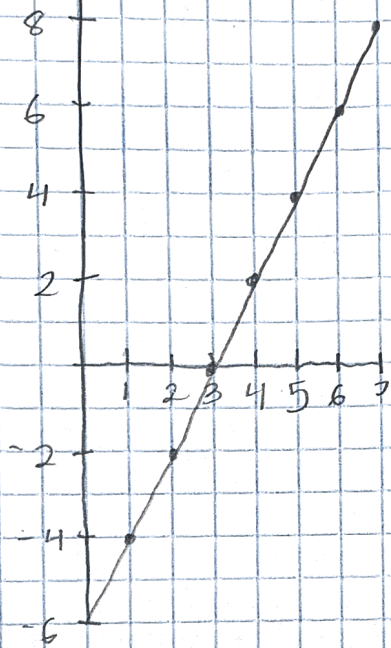
$$\begin{array}{r} -4x \\ \hline \end{array} \quad \begin{array}{r} -4x \\ \hline \end{array}$$

$$(-1) - 8y = -4x + 16 \quad (-1)$$

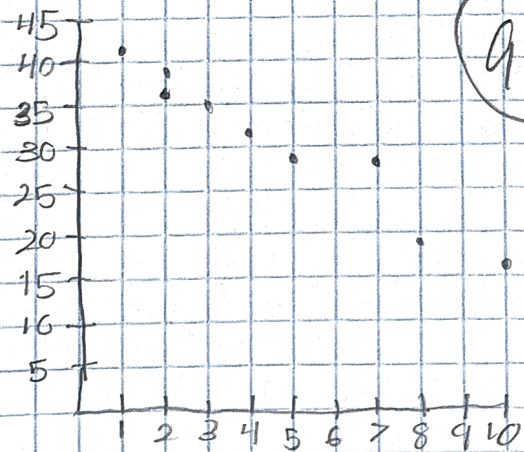
$$\frac{8y}{8} = \frac{4x - 16}{8 \quad 8}$$

$$\boxed{y = \frac{1}{2}x - 2}$$

# Lesson 9.1, 2



9-23



9-24