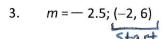


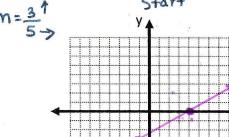
GROPHING IN POINT SLOPE FORM

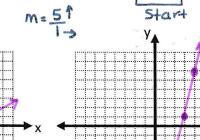
Given the slope and a point graph each of the following.

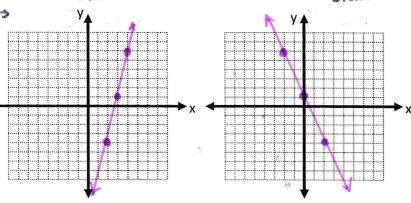
2.
$$m = 5$$
; $(2, -4)$



$$M = -5\sqrt{2}$$







4. Laverne and Shirley are making a scrapbook. The book costs \$7 and supplies for each page are \$3. To calculate the cost for any number of pages, each girl wrote an equation.

Laverne: y = 3x + 7

Shirley:
$$y - 13 = 3(x - 2)$$

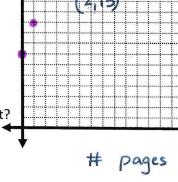
a. Using Laverne's equation, find the cost for 10 pages.

$$y = 3(10) + 7$$

= 30 + 7
= \$ 37

b. Using Shirley's equation, find the cost for 10 pages.

c. Is it possible to use both equations to accurately calculate the total cost? yes, they both work: Explain.



d. Graph the line represented by Laverne's equation.

$$M = \frac{3}{1} \uparrow$$

e. Is the point (2, 13) on the graph?

f. How does the point (2, 13) relate to Shirley's equation?

point-slope form:
$$y - y_i = m(x - x_i)$$

Given point-slope form, identify the slope and the point, and then graph each of the following.

5.
$$y - 1 = 3(x - 5)$$

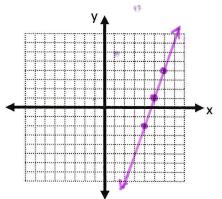
slope
$$m=3$$
 $\frac{3}{1}$

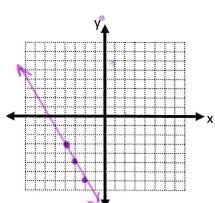
6.
$$y + 3 = -2(x + 4)$$

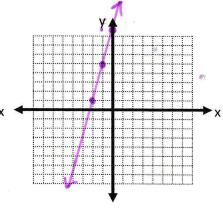
slope
$$m = -2$$

7.
$$y-5=4(x+1)$$

point
$$(-1, 5)$$







8.
$$y + 3 = \frac{-2}{3}(x + 1)$$

slope
$$m = \frac{2}{3}$$

point
$$\left(-1, -3\right)$$

9.
$$y-2=2(x+D)$$

slope
$$M = 2$$

point
$$(D, 2)$$

$$y-0 = 3(x-0)$$

10.
$$y = 3x$$

slope
$$M = 3$$
 $\frac{3}{1}$

