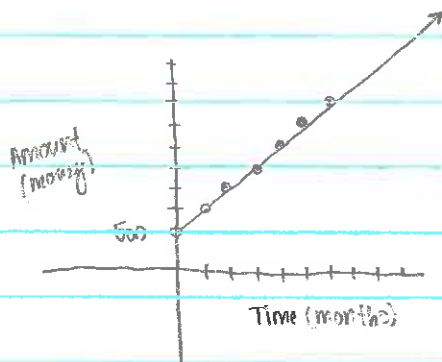


Algebra 1 (Lesson 6.1)

4.



6.

$$y = mx + b$$

$$3 = -2(5) + b$$

$$3 = -10 + b \quad b = 13$$

$$y = -2x + 13$$

8.

$$y = mx + b$$

$$b = 5(2) + b$$

$$b = 10 + b \quad b = -4$$

$$y = 5x - 4$$

10.

$$y = mx + b$$

$$2 = -\frac{1}{2}(-3) + b$$

$$2 = \frac{3}{2} + b \quad b = \frac{1}{2}$$

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

$$12. \text{ slope} = \frac{-3-10}{-3-(-6)} = \frac{-12}{3} = -4$$

$$y = mx + b$$

$$-2 = -4(-3) + b$$

$$-2 = 12 + b$$

$$b = -14$$

$$y = -4x - 14$$

$$14. \text{ slope} = \frac{-5-6}{-1-2} = \frac{-11}{-3} = \frac{11}{3}$$

$$y = mx + b$$

$$b = \frac{11}{3}(2) + b$$

$$b = \frac{22}{3} + b$$

$$b = -\frac{4}{3}$$

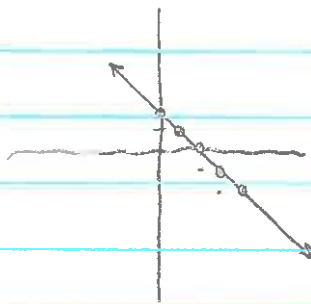
$$y = \frac{11}{3}x - \frac{4}{3}$$

16.

$$y = -x + a$$

$$\text{slope} = -1$$

$$y\text{-int: } (0, a)$$

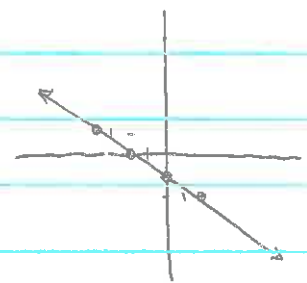


18.

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

$$\text{slope} = -\frac{1}{2}$$

$$y\text{-int: } (0, -1)$$



20. $3x - 6y = -12$

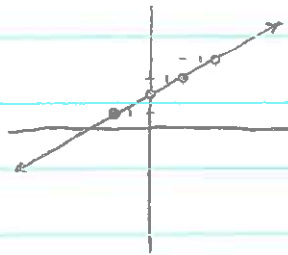
$$-6y = -3x - 12$$

$$y = \frac{3}{6}x + 2$$

$$y = \frac{1}{2}x + 2$$

slope = $\frac{1}{2}$

y-int: $(0, 2)$



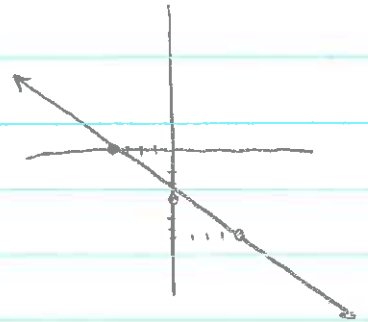
2a. $3x + 4y = -12$

$$4y = -3x - 12$$

$$y = -\frac{3}{4}x - 3$$

slope = $-\frac{3}{4}$

y-int: $(0, -3)$



24. Lorena: $y = 40 + 8x$

Benita: $y = 50 + 5x$

After 6 weeks Lorena will have \$88

and Benita will have \$80.

26. The slope and y-intercept should

be flipped. $y = 107x + 2$