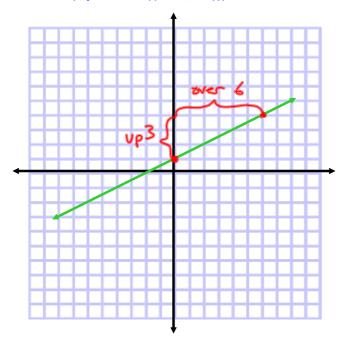
Section 5.1.notebook October 17, 2011

## **Announcements:**

- . Skills Test over Equations Friday, 10/21
- . Unit Test (Ch. 4 & 5 & 6.7) Thursday, 10/27
- Last day of the quarter is Thursday, 11/10
- . Last day for make-up work (excused!) is Monday, 11/14

## Writing an Equation from a Graph:

Manual method...



Visually identify the y-intercept

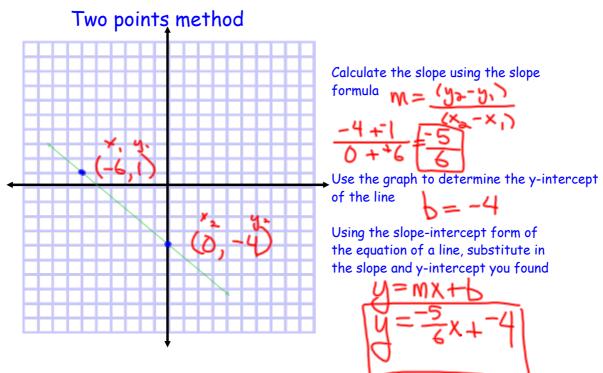
Count the rise and run and reduce

$$\frac{3}{6} = \frac{1}{2} = m$$

Write the equation

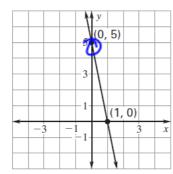
$$y = y + 1$$

## Writing an Equation from a Graph

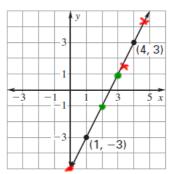


Write an equation of the line shown.

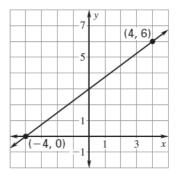
4.



5.



6.



$$b=5$$
 $M=\frac{-5}{1}=-5$ 
 $y=-5x+5$ 

$$M > \frac{2}{1} = 2$$
  
 $b = -5$   
 $y = 2x - 5$ 

$$M = \frac{6}{8} = \frac{3}{4}$$
 $b = \frac{3}{4} \times + 3$ 

Write an equation of the line that passes through the given points.

7. 
$$(-1,0), (0,-2)$$

$$M = \underbrace{\frac{y_{\lambda} - y_{1}}{x_{\lambda} - x_{1}}}_{x_{\lambda} - x_{1}}$$

$$= \underbrace{\frac{-\lambda + \delta}{\delta + 1}}_{0 + 1}$$

$$= -\frac{\lambda}{\lambda}$$

$$= -\frac{\lambda}{\lambda}$$

$$= -\frac{\lambda}{\lambda}$$

$$= -\frac{\lambda}{\lambda}$$

$$= -\frac{\lambda}{\lambda}$$

$$y = \frac{3}{2}x + 4$$

Write an equation for the linear function  $\boldsymbol{f}$  with the given values.

13. 
$$f(0) = 1, f(3) = 10$$

14.  $f(-4) = 5, f(0) = 2$ 

15.  $f(-4) = -2, f(0) = 7$ 

16.  $f(-4) = -2, f(0) = 7$ 

17.  $f(-4) = -2, f(0) = 7$ 

18.  $f(-4) = -2, f(0) = 7$ 

19.  $f(-4) = -3, f(0) = 7$ 

19.

**Laser Printer** A laser printer has a "sleep" mode that is an energy-saving feature. When a job is sent to the printer, it takes 45 seconds for the printer to warm up and then the printer prints pages at a rate of 6 pages per minute.

- **a.** Write the time it takes the printer to warm up in minutes.
- **b.** Write an equation that gives the total amount of time (in minutes) it takes the printer to warm up and print a job as a function of the number of pages in the job.
- **c.** Find out how long it takes the printer to print a 50-page job if it must first warm up.

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## Homework:

p. 286, 4-28 (even), 45, 46