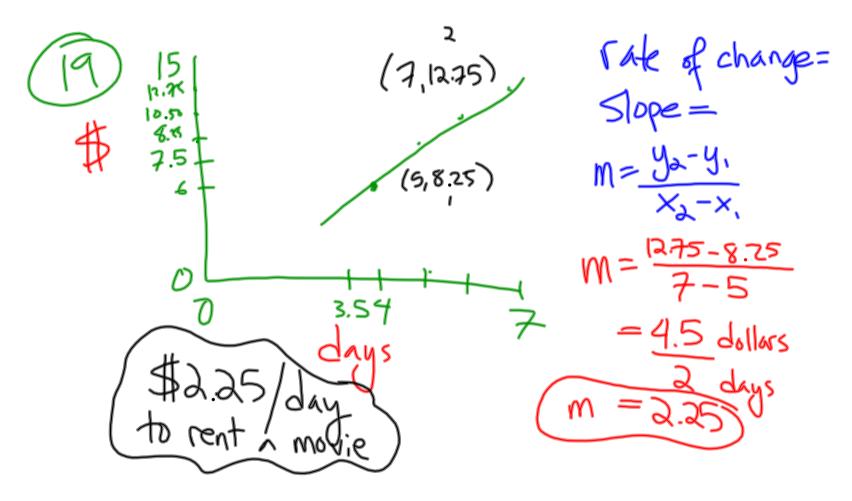
Section 4.5 030712.notebook

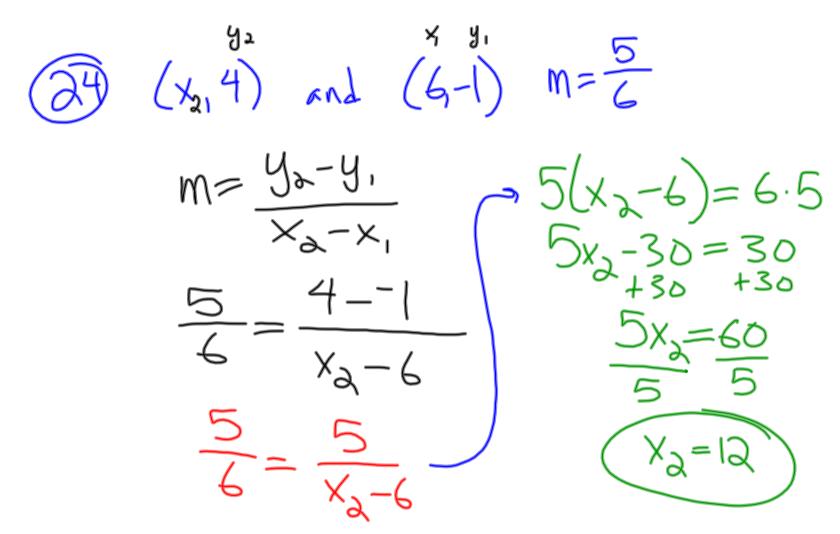
4.1-4.5 on Tresday 3/13 Keep each technique dear!

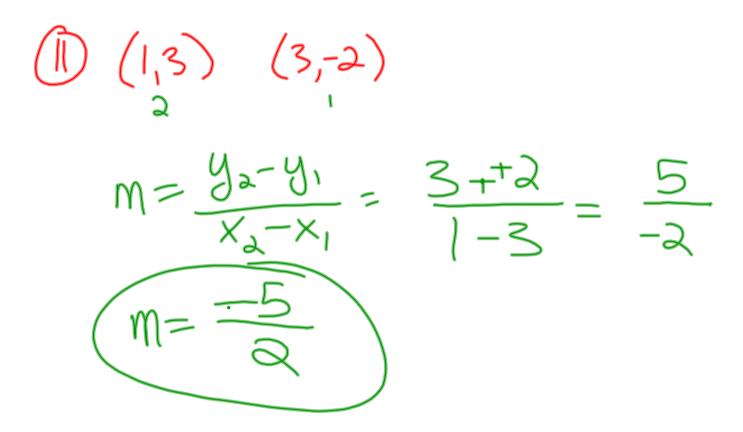
$$2x + 3y = 17$$

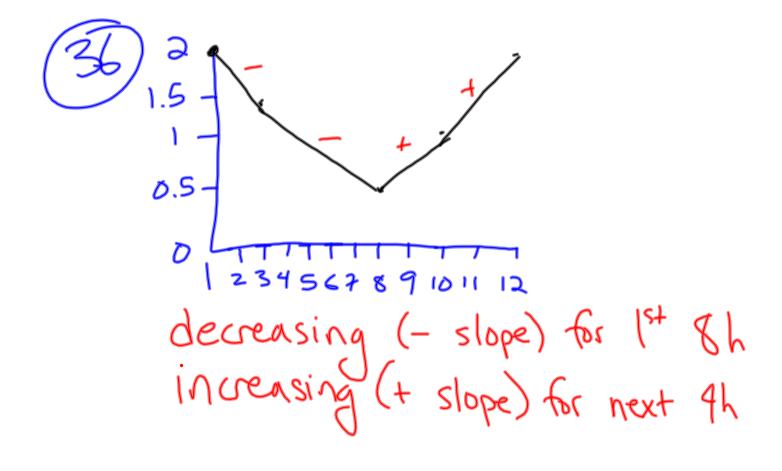
find slope...

Homework Review: 4.4

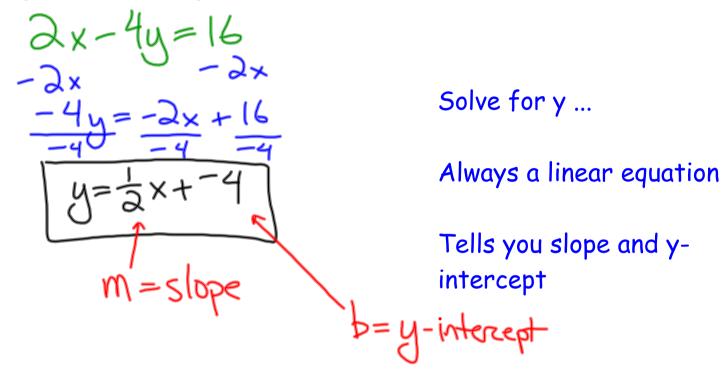








Slope-Intercept Form:



Why does it work?

4.
$$12x + 3y = 9$$

5.
$$6x - 2y = 2$$

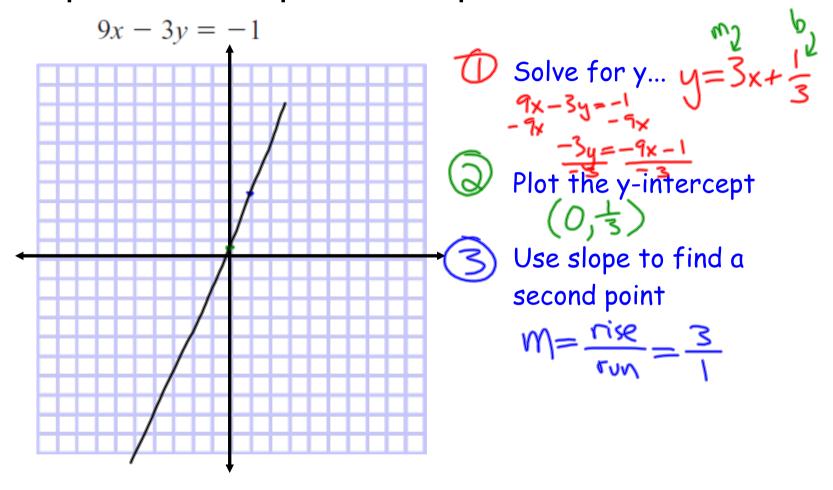
6.
$$2x + 5y = 10$$

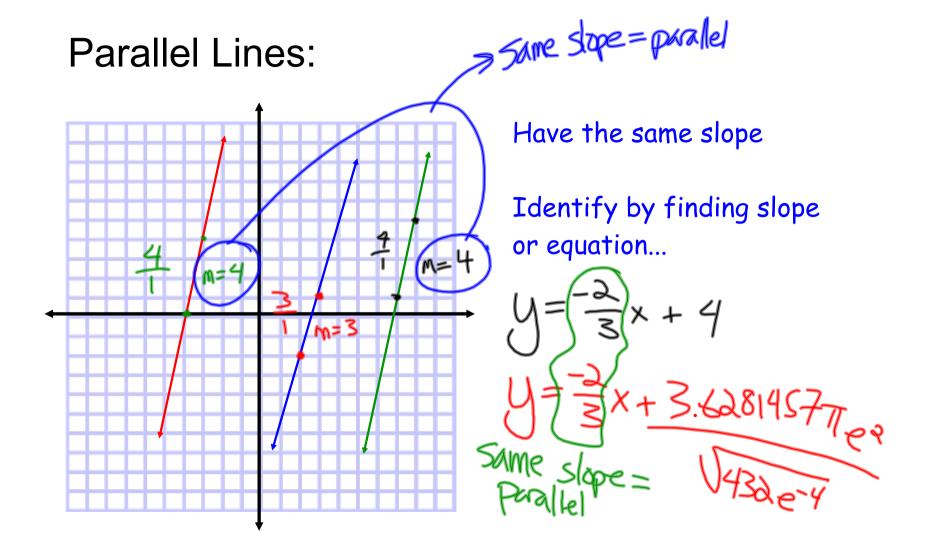
$$y = -4x + 3$$

$$y=3x+-1$$

$$y = \frac{-2x + 2}{5}$$

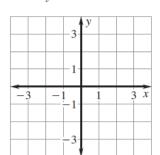
Graph using slope-intercept form:



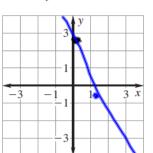


Graph each line; write the equation of a parallel line

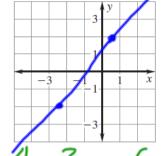
13. 7x - y = 3

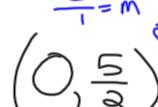


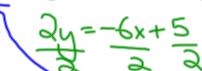
14. 6x + 2y = 5

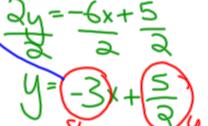


15. 4x - 3y = -6

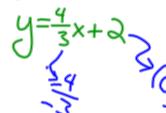






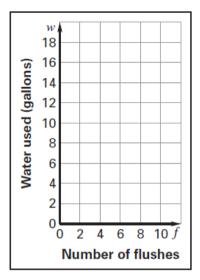


$$\frac{-3y = -4x - 6}{-3}$$



Water Usage A new toilet model has two different flush settings in order to conserve water. One setting uses 1.6 gallons of water per flush and the other setting uses 0.8 gallon of water per flush. The total amount w (in gallons) of water used in the first setting is given by the equation w = 1.6f where f is the number of times the toilet is flushed. The total amount of water used in the second setting is given by the equation w = 0.8f.

a. Graph both equations in the same coordinate plane. What do the slopes and the *w*-intercepts mean in this situation?



b. How much more water is used by the first setting if the toilet is flushed 10 times?

Homework: p. 247 2-38 (even), 40