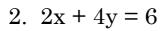
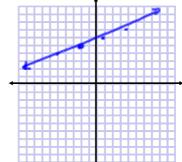
PreCalculus - Warm Up - 8/22/17

Graph the following:

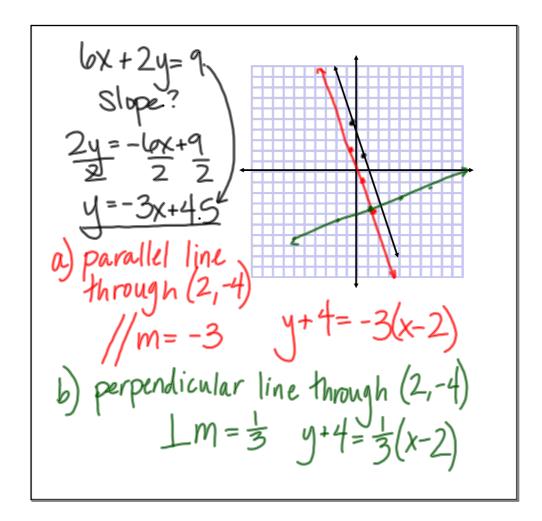
1.
$$y-5 = \frac{1}{3}(x+2)$$





3. Write the equation of the line parallel to y = 2x - 3 that goes through (1, -2)

Same slope
$$//m=2$$
 through $(1,-2)$ $y+2=2(x-1)$



Given the two points (-3, -5) and (5, -1), work with your partner to find the following:

$$M = \frac{1}{2} / M = \frac{1}{2}$$

 $m = \frac{1}{2}$ //m = $\frac{1}{2}$ 1. the slope, a parallel slope, and a perpendicular slope

$$\perp m = -2$$

- 2. the equation of the line through the two points
- 3. the equation of a perpendicu line through (5, -1)

Formulas? What are they again??

A school district purchases a high-volume printer, copier, and scanner for \$25,000. After 10 years, the equipment will have to be replaced. Its value at that time is expected to be \$2000.

If the school wanted to sell the equipment after 8 years, how much could they sell it for?

$$\frac{25000 - 2000}{10} = \boxed{2300}$$

$$\frac{2300 * 8 = 18,400}{9 = -2300 \times +25000}$$

- a. Write a linear equation giving the value V of the equipment during the 10 years it will be used.
- b. Use a graphing utility to graph the linear equipment, and use the value or trace feature to complete the table.

t	1	2	3	4	5	6	7	8	9	10
V										

c. Verify your answers in part (b) algebraically by using the equation you found in part (a).