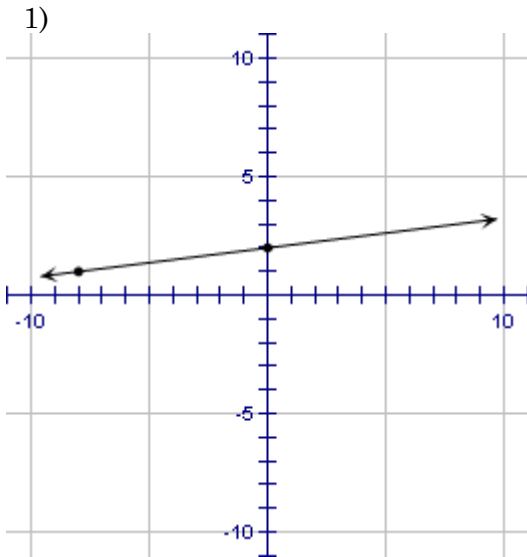
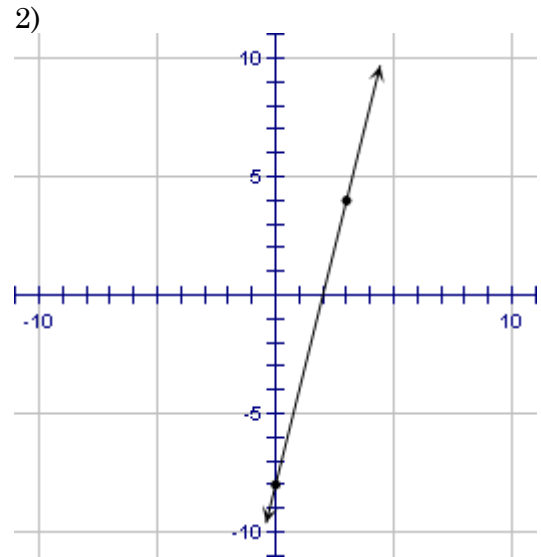


Chapter 4 Review
Day 2



- Write the coordinates of the point that is the y -intercept.
- Write the coordinates of the point that is not the y -intercept.
- Find the slope of the line.
- Write the equation of the line in point-slope form $y - y_1 = b(x - x_1)$, using the point from part (b)
- Using the distributive property and by combining like terms, simplify the equation in part (d) so that it is in slope-intercept form.
- According to your answer to part (e), does your equation match the graph (does the y -intercept match?)



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- According to your answer to part (e), does your equation match the graph (does the y -intercept match?)

3) Consider the point-slope equation $y = -6 + 2(x - 4)$.

a. Name the point used to write this equation.

b. Write an equivalent equation in slope-intercept form.

c. What is the y -intercept of the line?

d. What is the x -intercept of the line?
(The x -intercept is the x value when the y -value is zero)

4) Distributive Property

a. $2(x - 5)$

b. $-5(3x - 8)$

c. $3(-2x - 5)$

d. $\frac{4}{5}(x - 5)$

5) Factoring – try to do the distributive property *backward*.

a. $2x - 10$

b. $3x - 12$

c. $15x + 20$

d. $14x + 21y - 28$

6) **Sketch** a line that satisfies each the given conditions on another sheet of paper. Then give an equation for a line.

a. The line passes through Quadrants II, III, and IV but not Quadrant I.

b. The line has a negative slope and crosses the x -axis at 4.

c. The line passes through Quadrants I and II only.

d. The line has an x -intercept of 6 and a y -intercept of 5.

7) Solve each equation – show each step.

a. $5 + \frac{2x+1}{3} = 8$

b. $2\left(\frac{x}{5} + 4\right) = -4$