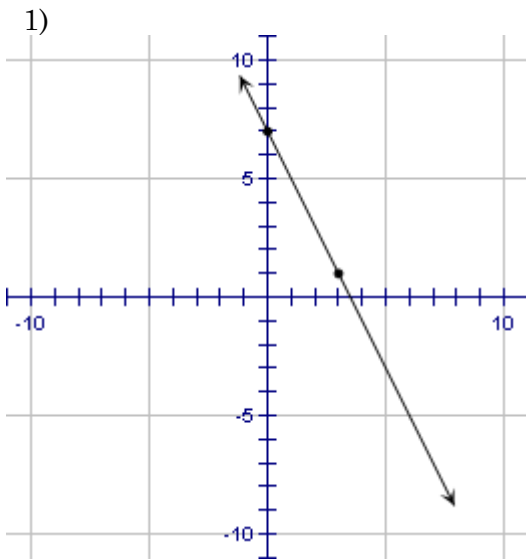
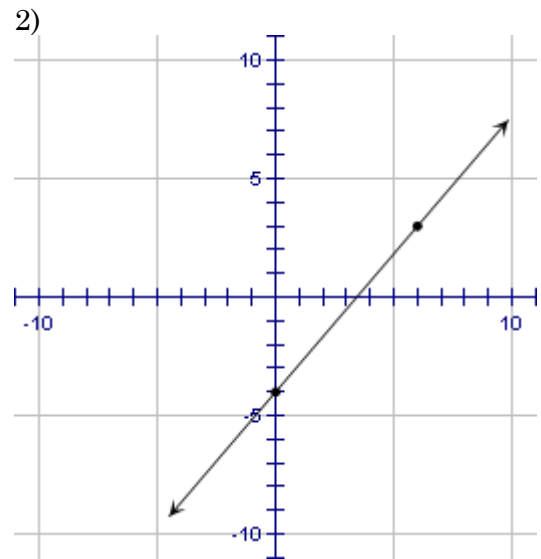


Chapter 4 Review  
Day 1



- 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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- 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?)

- 3) Use the table at the right to answer to following questions:
- Find the slope of the line that goes through both points.
  - Write the equation of the line using point-slope form.
  - Simplify your answer from part (b) so that you write the equation in slope-intercept form.

$x$	$y$
2	10
6	34

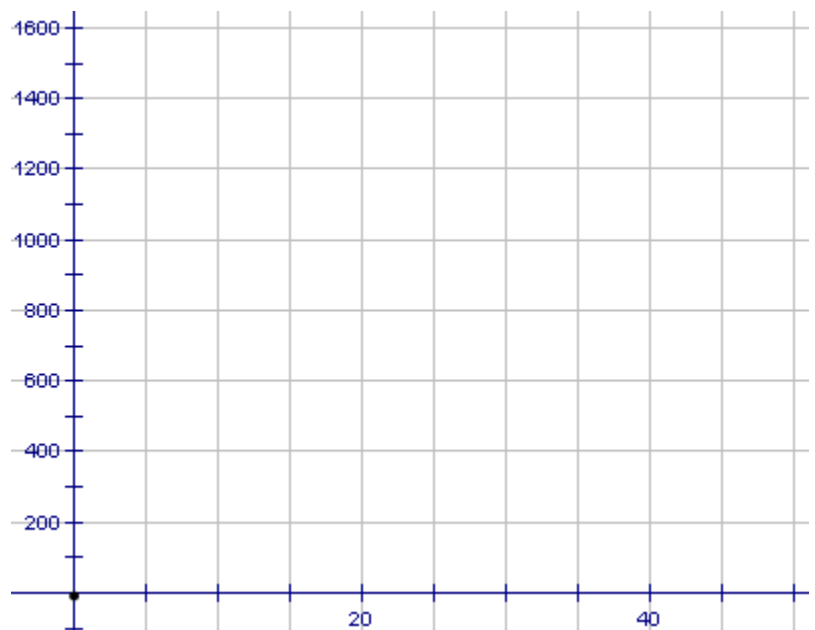
d. What is the  $y$ -intercept of the line that passes through the two points?

- 4) A line goes through the point  $(4,8)$  and has a slope of  $\frac{5}{2}$ . List at three other points that are also on the line.
- 5) A line goes through the point  $(0,8)$  and has a slope of  $\frac{5}{2}$ . Write the equation of the line in intercept form.

6) This chart shows how the height of a hot-air balloon changed over time.

Time (seconds)	0	10	20	30	40	50
Height (feet)	500	700	900	1100	1300	1500

- Graph the data.
- Find the slope of the line.  
**Include the units**
- Write an equation in intercept form that describes the height of the balloon ( $y$ ) in feet to the amount of time ( $x$ ) in seconds. (note...the balloon was already off the ground when we started the timer.)



- Assuming the balloon continues to climb at the same rate, use your equation to predict the height of the balloon after two minutes.