



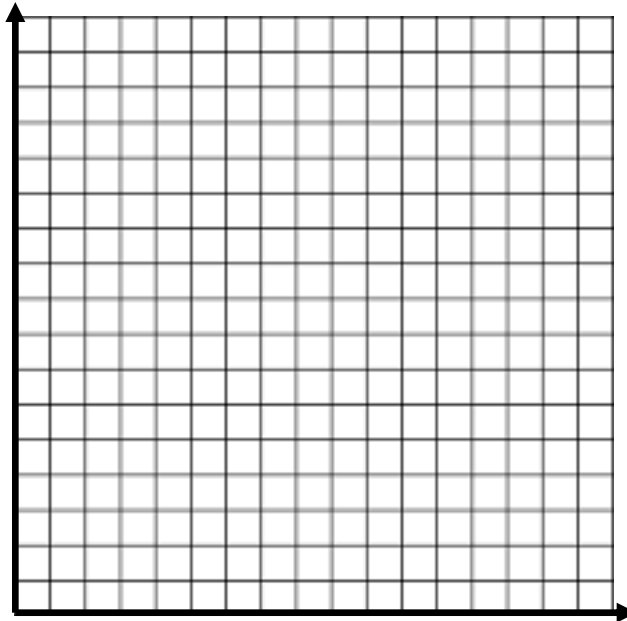
3. A line passes through  $(-1, 5)$  and  $(2, 4)$ .
  - a. Determine the slope of the line.
  
  
  
  
  
  
  
  
  
  
  - b. Write the equation for the line in slope y-intercept form.
  
  
  
  
  
  
  
  
  
  
  - c. Write the equation of the line in standard form.
  
  
  
  
  
  
  
  
  
  
4. Write the equation of a line with a slope of  $-\frac{1}{4}$  that passes through  $(-3, 7)$  in standard form.
  
  
  
  
  
  
  
  
  
  
5. Write the equation of a line that passes through  $(-5, 6)$  and has an x-intercept of 3 in slope y-intercept form.
  
  
  
  
  
  
  
  
  
  
6. Write the equation of a line that is parallel to  $y = \frac{2}{3}x - 5$  and passes through  $(6, 4)$ .
  
  
  
  
  
  
  
  
  
  
7. Write the equation of a line that is perpendicular to  $y = -3x + 7$  and passes through  $(-2, 5)$ .

8. Write the equation of a line that is parallel to  $-2x + 4y - 5 = 0$  and has an  $x$  – intercept of  $-2$ .

**Preview of Tomorrow's Lesson:**

Tools R Us rents snow blowers for a base fee of \$20, plus \$8/h. XYZ Rentals rents them for a base fee of \$12, plus \$10/h.

- a) Write an equation that represents the cost of renting a snow blower from Tools R Us.
  
  
  
  
  
  
  
  
  
  
- b) Write an equation that represents the cost of renting a snow blower from XYZ Rentals.
  
  
  
  
  
  
  
  
  
  
- c) Graph both lines on the same set of axes. (Make sure that your  $y$  – axis counts to at least 60 – use increments of \$5).



- d) What do you think that the point of intersection of the lines means in this situation?
  
  
  
  
  
  
  
  
  
  
- e) If you needed to rent a snow blower for 36 hours, which company would you choose and why?