

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Graphing Lines (Table)

### Algebra (Grade 8)

#### Exercise #1: Quick Review

Evaluate the expression when  $a = \frac{1}{4}$  and  $b = 6$ .

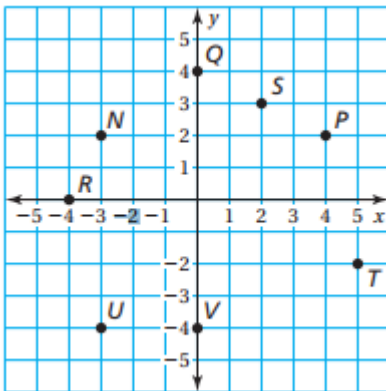
1.  $-8ab$

2.  $16a^2 - 4b$

3.  $\frac{5b}{32a^2}$

4.  $12a + (b - a - 4)$

#### Exercise #2: Quick Review #2. Use the graph below to answer the following questions:

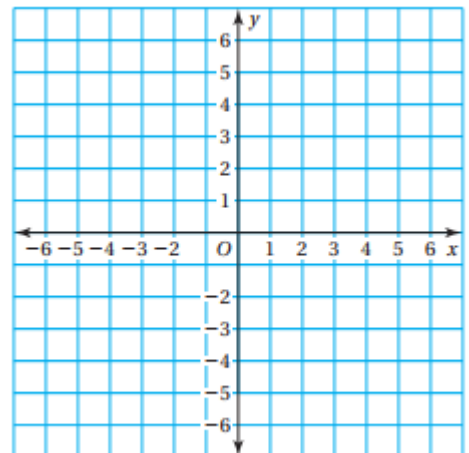
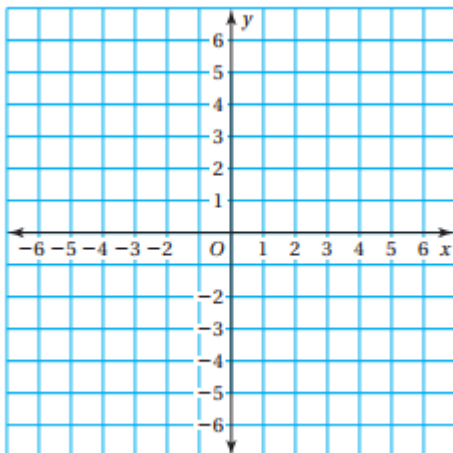


- 5. Write the ordered pair that corresponds to point Q.
- 6. Write the ordered pair that corresponds to point P.
- 7. Which point is located at  $(-4, 0)$ ?
- 8. Which point is located in Quadrant II?

#### Exercise #3: Make a table of values for each linear equation and graph the equation of the line. Use 5 x-values.

$y = x + 4$

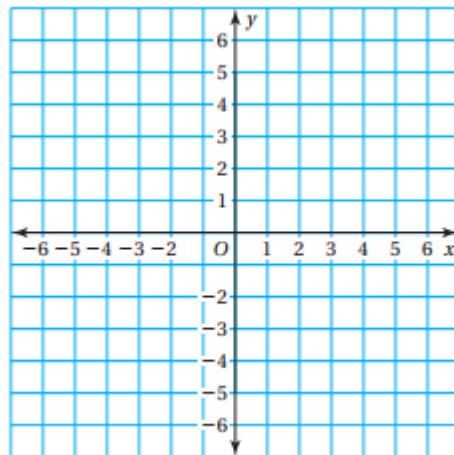
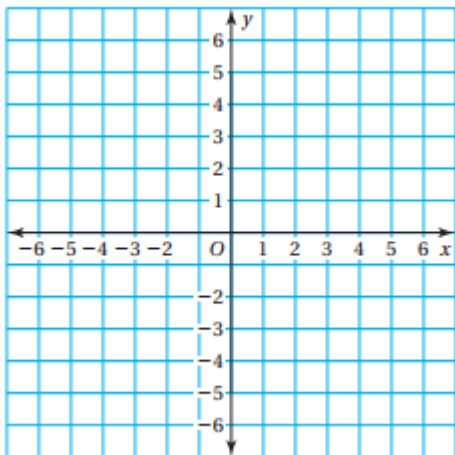
$y = 2x - 1$



Exercise #4: Make a table of values for each linear equation and graph the equation of the line.

$$y = -3x + 1$$

$$y = -\frac{3}{2}x + 2$$



### Key Idea

#### Linear Equations

A **linear equation** is an equation whose graph is a line. The points on the line are **solutions** of the equation.

Exercise #5: Make a table of values for each linear equation and graph. What type of lines are they?

$$y = 3$$

$$x = 2$$

