Name:

Period: _____

4.4 – Graphing and Writing Linear Equations

Match the equation with its graph. Identify the slope and *y*-intercept.



Graph each equation using the slope and the *y*-intercept only.

4) y = x + 4











5) y = -x + 2

7)



Solve each equation in slope-intercept form. Then graph.

10) y - 3x = -3 11) 2x + 4y = 4



- 12) The total cost y (in dollars) for entrance into a fair when you go on x rides is represented by the equation y = 3x + 6.
 - a. Graph the equation *using intervals of 3 for the y-axis and intervals of 1 for the x-axis*. (Make sure to label your axis)
 - b. Interpret the slope.
 - c. Interpret the *y*-intercept.



- 13) There is a \$5 monthly membership fee to download music. There is a \$1 fee for each song downloaded.
 - a. Write an equation in slope-intercept form that models the cost of downloading *x* songs per month.
 - b. Graph the equation using intervals of 2 for the y-axis and intervals of 1 for the x-axis.



c. What is the cost of downloading 15 songs?