Name: Answers

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.



6)













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

10) y - 3x = -3+ 3x + 3x

y = 3x - 3







- 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
  - b. Interpret the slope. The cost for each ride
  - c. Interpret the y-intercept.

The initial cost for entrance



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?

y = 1(15) + 5y = 20