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

CC Algebra

**Unit 3 Review for Graphing Linear Equations Test**

1. Which statement is true about the graph of the line whose equation is y = 8?
2. The line is parallel to the x- axis c. The line has a slope of 8
3. The line is parallel to the y- axis d. The line passes through the origin
4. The line whose equation is y = 4x + 3 has a y- intercept whose coordinates are
5. (0, 4) b. (0,0) c. (0, 3) d. (3, 0)
6. Which equation represents the line parallel to the y- axis and 4 units to the left of the y- axis?
7. Y = -4 b. y = 4 c. x = 4 d. x = -4
8. The point (k, -2) lies on the line whose equation is x – 3y = 7. What is the value of k?
9. k = -1 b. k = 13 c. k = 1 d. k = -13
10. What are the coordinates of the y-intercept of the equation 2y + 3x = 12?
11. (3, 0) b. (0, 6) c. (0, 2) d. (6, 0)
12. What is the slope of the line that passes through the points (1, -5) and (2, 3)?
13. Sketch the graph of x = -2 and state the slope.
14. For each graph below, identify the slope as being either positive, negative, zero, or undefined (no slope).

y

y

y

y

x

x

x

x

1. Graph the equation 2x – 4y = 12.
2. Graph the equation y = 4.
3. Given the function f(x) = -x2 + 3x -1, find a value for each of the following:
4. f(-2) b. f(3)
5. Write the equation of the line that passes through the points (-2, 4) and (8, -1).
6. Write each of the following equations in slope- intercept form.
7. y – 2x = 3
8. 3x + 2y + 10 = 0
9. x + 2y = 2
10. 3x = 8 – 2y
11. Which equations are parallel? b. Which equations are perpendicular?
12. Write the equation of the line that passes through the point (-3, 1) and is perpendicular to the line whose slope is .
13. Graph the equation y + 4 = (x – 2).
14. Graph the equation 3x – 5y = 15 using the x- intercept and the y- intercept.