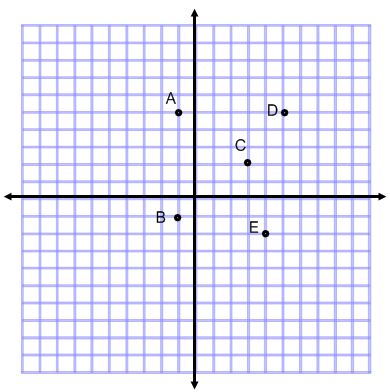
Unit Test Review  
Section 1 (These will be multiple choice on your test)

1. Rewrite 4x + 2y = 10 in slope-intercept form (y = mx + b)
2. Rewrite 2x + 3y + 6 = 0 in slope-intercept form (y = mx + b)
3. Find the y-intercept (b) and the slope (m) of this line: 2x + 5y = 10
4. Find the y-intercept and the slope of the this line: 2x – y + 3 = 0
5. What is the slope of 6x + 3y = 9?
6. If you graph y = -1/3x + 3, which one of these points would be on the line?  
   
7. Using the graph above, if you graph a line with a slope of 1, and passes through the origin, which **two** points will be on the line?
8. What is the y-intercept of the line 2x – 4y + 8 = 0?
9. What is the x-intercept of the line 3x + y – 4 = 0?
10. Sketch a graph (you can use the grid above) of the line y = 3/2x – 5
11. Write the equation of the line with a slope of -3 and a y-intercept of 4.
12. Does the line y = 2x + 1 contain the point (3,7)?
13. What is the slope of the line connecting these two points: (2,4) and (8,4)?
14. What is the slope of the line joining (10,4) and (10,2)?
15. What is the slope of the line joining (3,3) and (6,3)?

Section 2 – Short Answer

1. Solve the following equations for x:
   1. 10x – 33 = 4x + 39 d. 4x + 1 = 3x + 7
   2. 3x = 10 + 2x 2 4
   3. 3x + 2 = x e. 3x – 8 – 1 + 2x = 1 – 3x

6 6 2 3 4

1. Blockbuster has a yearly membership of $25 plus $4/DVD rental. Rogers has a membership of $50 plus $2/DVD.
   1. Write an equation for each member ship.
   2. If you wanted to rent 10 DVDs, which would you pick?
   3. After how many DVDs are both companies the same?
2. Draw the graph of each line:
   1. y = 1/2x + 2 b. y = -3x + 4 c. y = -3
3. What is the x and y intercept of each line?
   1. y = 2x + 4 b. 4x + 2y = 6 c. 2x – y + 3 = 0
4. Find the equation of each line:
   1. A slope of 4 and a y-intercept of 3
   2. A slope of -1/2 and a y-intercept of -2
   3. A line that goes through the point (2,5) with a slope of 4