

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

Algebra  
Linear Eqs

1. Complete the following:
  - a) Graph the equation  $y = (-3/2)x + 3$
  - b) Graph the equation  $2y = -3x + 6$
  - c) What do you notice about the two lines?
  
  - d) Find the slope of the above two lines. What can you conclude about parallel lines and slope.
  
2. Complete the following:
  - a) Graph the equation  $y = 2x - 3$
  - b) Graph the equation  $y = -1/2x - 3$
  - c) What do you notice about the two lines?
  
  - d) Find the slope of the above two lines. What can you conclude?
  
3. Which statement is true about the graph of the equation  $y = 6$ ?
  - a) It is parallel to the y-axis
  - b) It is parallel to the x-axis
  - c) It goes through the origin
  - d) It has an x-intercept
  
4. Which statement is true about the graph of the equation  $y = x$ ?
  - a) It is parallel to the x-axis
  - b) It is parallel to the y-axis
  - c) It goes through (2, -2)
  - d) It goes through the origin

**Review Questions:**

5. Graph the following equations:  
a)  $y = -3x + 11$       b)  $y = 2$       c)  $2y - 4x = 2$
  
6. Find the slope of the three equations in question 5.
  
7. Find the area of the triangle formed in question 5.
  
8. Does the point (2, -3) lie on the graph  $x - 2y = -4$ ? Show your work.
  
9. What must be the value of d if (d, 4) lies on the line  $3x + y = 10$ ?