

To Be or Not To Be A Linear Equation: That Is the Question—Pre-Test

1. Define the following terms in your own words:

- a. Linear equation
- b. x-intercept
- c. y-intercept

2. Determine if the following equations are linear or non-linear. Describe why or why not.

a. $3x + 2y = 5$

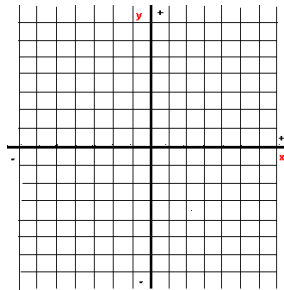
b. $\frac{4}{x} + 6y = -2$

c. $y = -7x + 3$

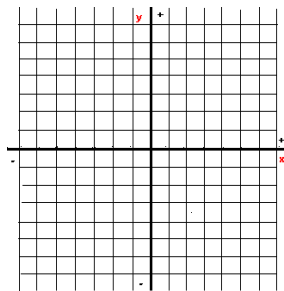
d. $x + y^2 + 2 = -1$

3. Find the x-intercept and y-intercept and graph the following equations.

a. $6x + 2y = 6$



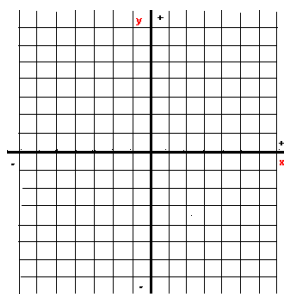
b. $y = 4x$



To Be or Not To Be A Linear Equation: That Is the Question—Post-Test

1. Define the following terms in your own words:
 - a. Linear equation
 - b. x-intercept
 - c. y-intercept
2. Determine if the following equations are linear or non-linear. Describe why or why not.
 - a. $4x + 7y = 6$
 - b. $\frac{5}{x} - 2y = 9$
 - c. $y = -x - 19$
 - d. $2x - 4y^2 + 2 = 9$
3. Find the x-intercept and y-intercept and graph the following equations.

a. $6x - 2y = 6$



b. $y = 3x$

