

## Section 4.2: Graphing Linear Equations by Plotting Points

### Objective

- Plot points that satisfy a linear equation and draw the corresponding line.
- Recognize the standard form of a linear equation in two variables:  $Ax + By = C$
- Find the x-intercept and y-intercept of a line and graph the corresponding line.

### Instruct

1. The independent variable is assigned to the first component of the ordered pair and the dependent variable is assign to the second component. **True/False**
2.  $Ax + By = C$  is called \_\_\_\_\_ .
3. How many ordered pairs,  $(x, y)$  do you need to draw a graph of a linear equation?
4. What is the x coordinate at the y-intercept? ( \_\_\_\_\_, Y)
5. What is the y coordinate at the x-intercept? ( X, \_\_\_\_\_ )
6. Consider the linear equation  $5x - 4y = 10$ . Find the y-intercept, x-intercept and one other point. Plot your ordered pairs  $(x, y)$  and then draw a line through the points on your graph.

y-intercept : label point (A) ( \_\_\_\_\_, \_\_\_\_\_ )

x-intercept : label point (B) ( \_\_\_\_\_, \_\_\_\_\_ )

Additional point labeled (C) ( \_\_\_\_\_, \_\_\_\_\_ )

