## Sections 2.3 & 2.4 - Equations of Lines



**Exercise #10** Match the graphs (I) - (VI) with the equations given below. (You shouldn't need to graph each equation to determine which is which!) NOTE: The x and y scales may be unequal. Show all work.









**Exercise #13** Which one of the following is true?

- a) A linear function with nonnegative slope has a graph that rises from left to right.
- b) Every line has an equation that can be expressed in slope-intercept form.
- c) The graph of the linear function 5x+6y=30 is a line passing through the point (6,0) with slope -5/6.
- d) The graph of x=7 in the rectangular coordinate system is the single point (7,0).
- **Exercise #14** Write the slope-intercept equation of a function f whose graph passes through (-5,6) and is perpendicular to the line that has an *x*-intercept of 3 and a *y*-intercept of -9.