Graphing Lines

Rearrange each equation to get the y by itself. Then list the slope of the line and its y-intercept.

- 1. 5x + 2y = 20
- 2. 3x y = 6
- 3. -8x + 2y = 14

On a sheet of graph paper, make a separate graph for each of the previous equations. Graph neatly and accurately using the slope and intercept.

- 4. Graph Problem 1
- 5. Graph Problem 2
- 6. Graph Problem 3

Calculate the x- and y-intercepts of each line. [Remember: For x-intercept, y = 0; for y-intercept, x = 0.]

- 7. 2x 3y = 6
- 8. 8x + 4y = 16

On the same sheet of graph paper, make a graph for each of the previous problems. Graph the x- and yintercepts, then draw a neat, straight line through both points.

- 9. Graph Problem 7
- 10. Graph Problem 8

Calculate the slope between the two points. You may use graph paper to plot the points and count the squares. $Slope = \frac{Rise \uparrow \downarrow}{Run \rightarrow}$ or $Slope = \frac{y_2 - y_1}{x_2 - x_1}$

- 15. What is the slope of a horizontal line?
- 16. What is the slope of a vertical line?