

## Graphing by Inspection ~

### Slope Intercept & General Form of Equation of a Line

$$y = mx + b$$

Graph the y-intercept (b) first, then use the slope (m) to find another point and graph

$$Ax + By = C$$

Find the x-intercept by letting  $y = 0$ , find the y-intercept by letting  $x = 0$ , plot the two points and graph. The slope is  $-A/B$

On a separate sheet of paper, graph the following equations by Inspection.

1)  $y = 2x + 1$

2)  $y = 3x + 2$

3)  $y = \frac{1}{2}x + 5$

4)  $y = 2x - 3$

5)  $y = \frac{1}{2}x - 4$

6)  $y = -3x + 2$

7)  $y = -4x + 6$

11)  $3x + 4y = 12$

12)  $6x - 2y = 6$

13)  $-5x + 10y = 20$

14)  $x + y = 1$

15)  $x - y = 1$

16)  $2x + 2y = 2$

17)  $2x - 2y = 2$

8)  $y = -\frac{2}{5}x + 3$

18)  $5x - 2y = 7$

9)  $y = -3x - 2$

19) Compare #14 & #16

10)  $y = 4x$

20) Compare #15 & #17