

## Graphing by Inspection ~

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

#### Slope Intercept Form $y = mx + b$

1. Identify & plot the y intercept (b)
2. From the  $y_{\text{int}}$  (0, b), use the slope (m) to find another point
3. Draw line through the points

#### General Form $Ax + By = C$

1. Find the  $y_{\text{int}}$  by letting  $x = 0$  (cover up x)
2. Find the  $x_{\text{int}}$  by letting  $y = 0$  (cover up y)
3. Draw line through the points

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

1)  $y = 2x + 1$

11)  $3x + 4y = 12$

2)  $y = 3x + 2$

12)  $6x - 2y = 6$

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

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

4)  $y = 2x - 3$

14)  $x + y = 1$

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

15)  $x - y = 1$

6)  $y = -3x + 2$

16)  $2x + 2y = 2$

7)  $y = -4x + 6$

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