

## Graph Slope Intercept by Inspection; $y = mx + b$

### *The pattern*

*The y-intercept,  $b$ , occurs when  $x = 0$*

*The slope,  $m$ , is the  $\frac{\Delta Y}{\Delta x}$ , the rise over the run*

### **Procedure**

- 1. Graph the  $y_{\text{int}}, b$**
- 2. From  $b$ , use slope,  $m$ , to graph next point**
- 3. Draw line through the points**

Graph the following by inspection.

1.  $y = 2x + 3$

2.  $y = -3x + 5$

3.  $y = \frac{2}{3}x - 4$

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