Point–Slope Form:	$y - y_1 = m\,(x - x_1)$	*where m is the slope and the point (x_1, y_1)*

To graph a line from Point Slope Form, you need a point and the slope. Using the equation, identify the slope and the point.

Watch your signs when identifying the point. *Hint:* when you write your point, change the sign to the opposite of what it reads in the equation.
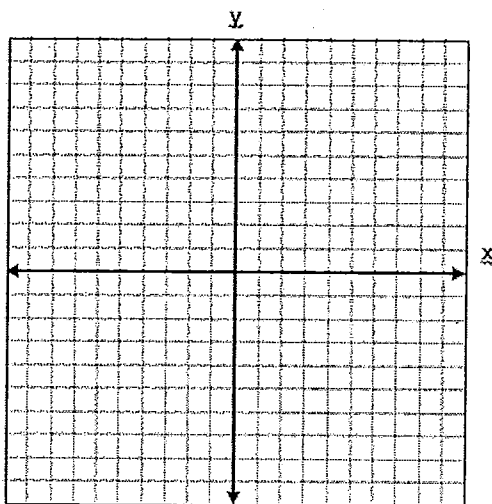
Once you have identified your slope and point, PLOT THE POINT FIRST, then count your slope ($\frac{rise}{run}$) from that point.

Examples:

1. $y - 5 = -\frac{2}{3}(x + 2)$
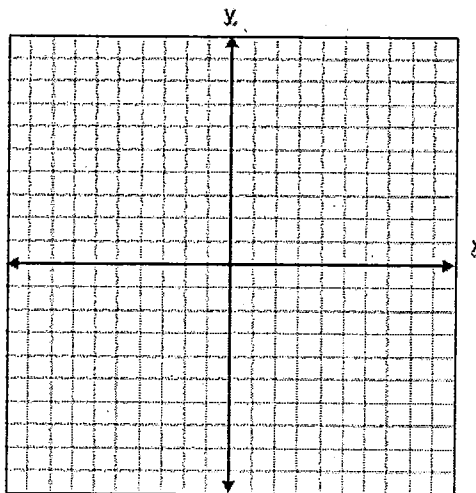
    m =

    point (x_1, y_1)

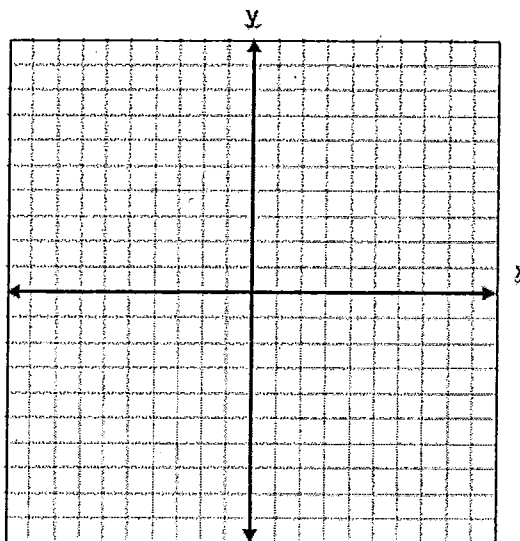2. $y - 2 = \frac{1}{3}(x - 1)$

    m =

    point (x_1, y_1)

3. $y + 3 = -2(x - 3)$

m =

point (x_1, y_1)
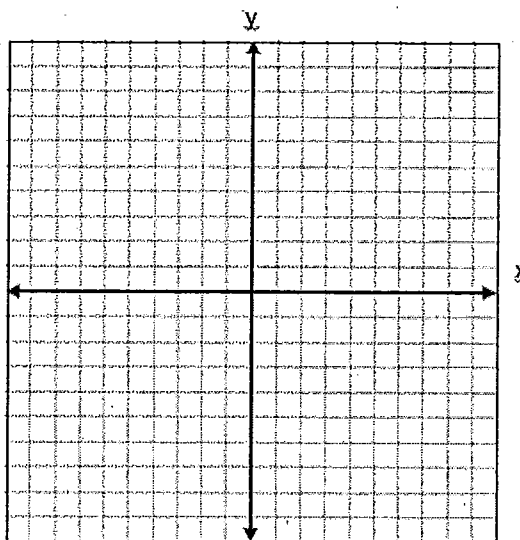

4. $y - 2 = 4(x - 1)$

m =

point (x_1, y_1)

5. $y + 5 = \dfrac{2}{3}(x - 0)$

m =

point (x_1, y_1)