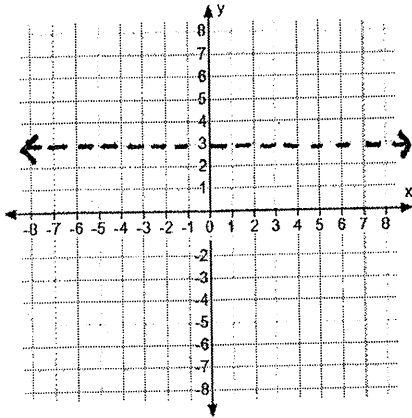


Graphing Examples:

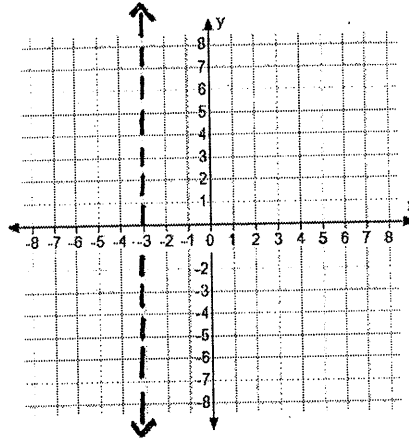
- horizontal line
- the slope is zero

$$y = 3$$



- vertical line
- undefined slope

$$x = -3$$



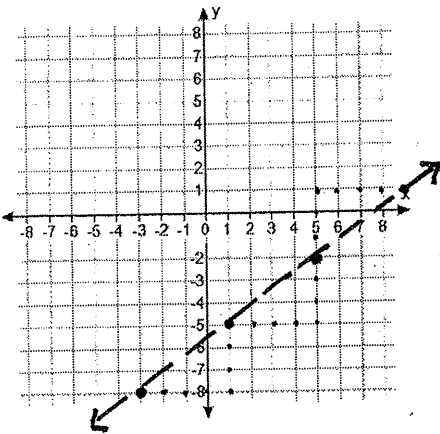
Pt. slope form

$$(y - y_1) = m(x - x_1)$$

$$(y + 2) = \frac{3}{4}(x - 5)$$

A point is $(5, -2)$. The slope is $\frac{3}{4}$.

(x_1, y_1) m



slope-intercept form

$$y = mx + b$$

$$y = -\frac{3}{2}x + 7$$

m : slope
 b : y-intercept

The y-intercept is $(0, 7)$. The slope is $-\frac{3}{2}$.

