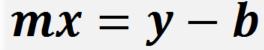
Writing Linear Equations

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m=\frac{y-b}{x-0}$$

$$m=\frac{y-b}{x}$$



$$y = mx + b$$



$$y$$
 - intercept = 1

$$m=\frac{3-1}{4-0}=\frac{2}{4}=\frac{1}{2}$$

$$y=\frac{1}{2}x+1$$



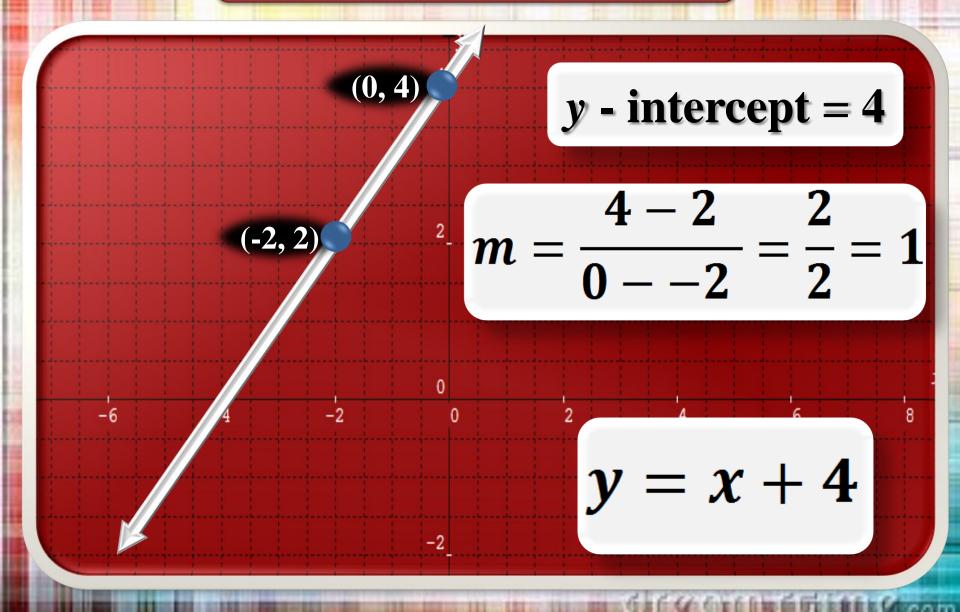


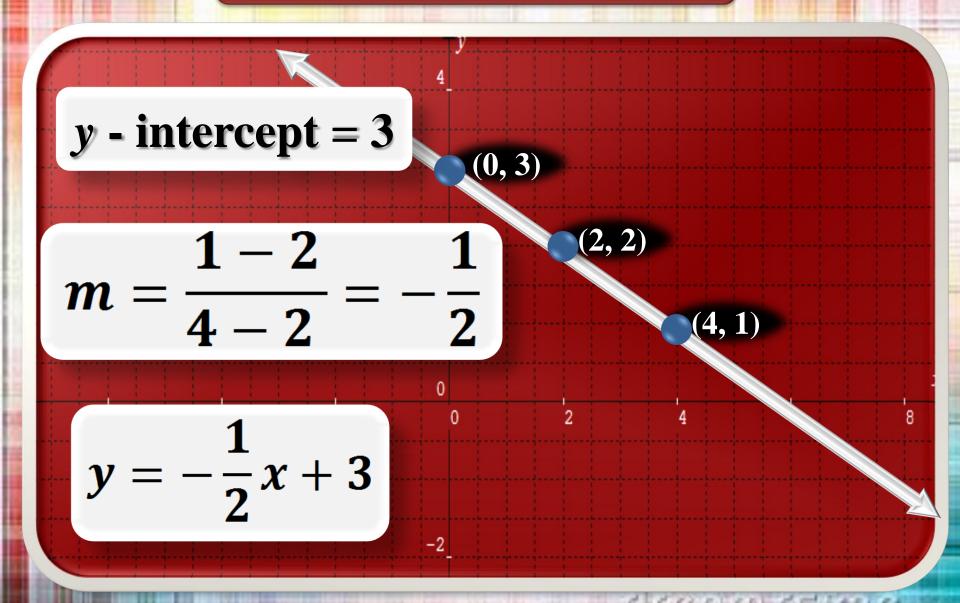












Point - Slope Form

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

$$x_1 = -4$$

$$y_1 = 2$$

$$x_1 = 2$$

$$y_1 = -2$$

$$y_1 = -2$$

$$y_1 = -2$$

Point - Slope Form

$$y-y_{1} = m(x-x_{1})$$

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

$$x_{1} = -4$$

$$y_{1} = 2$$

$$m = \frac{-2-2}{2-(-4)} = \frac{-4}{6} = -\frac{2}{3}(2,-2)$$

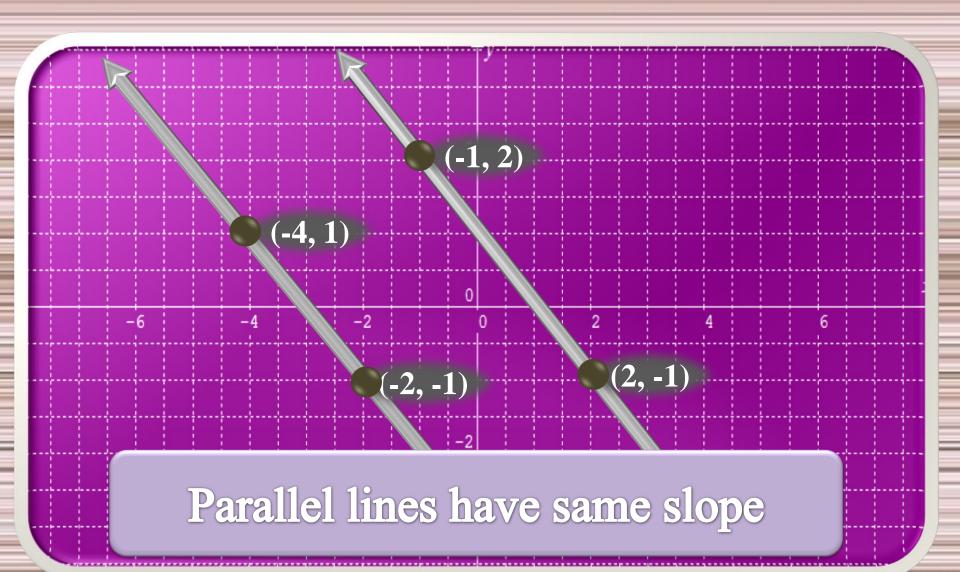
Point - Slope Form

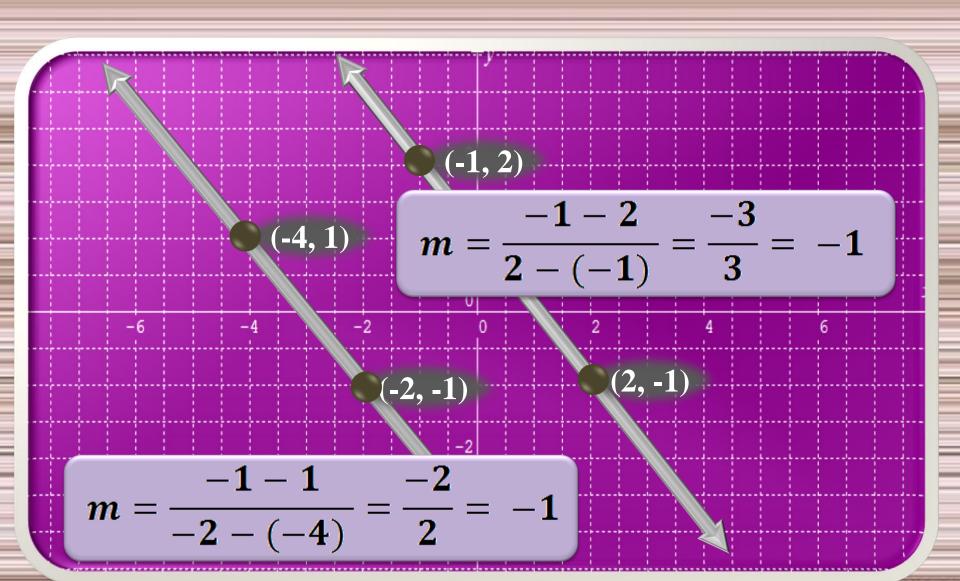
$$y-2=-\frac{2}{3}(x+4)$$

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

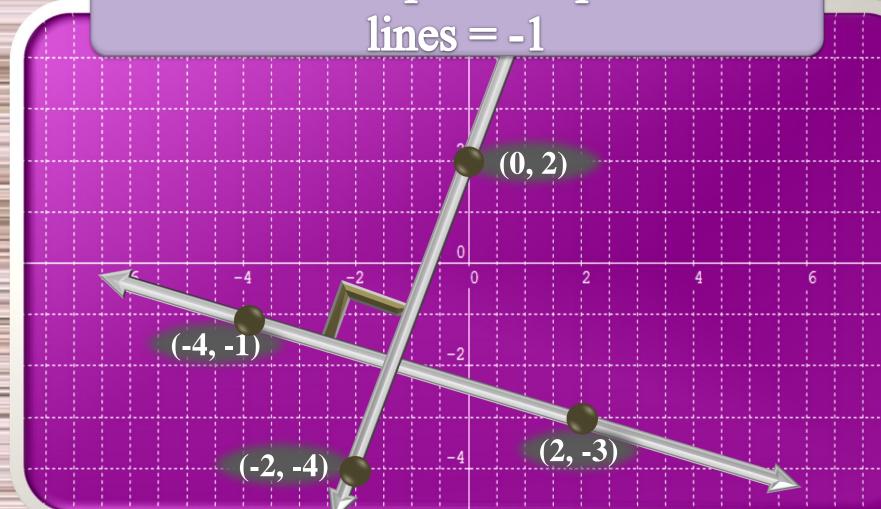
$$y = -\frac{2}{3}x - \frac{2}{3}$$

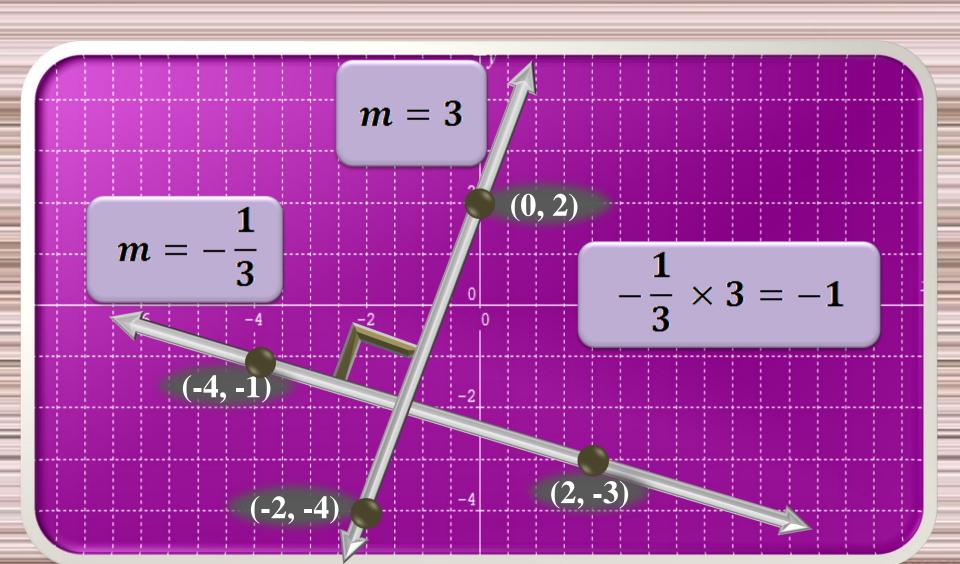
$$(2, -2)$$











Point - Slope
Form
$$y-y_1 = m(x-x_1)$$

Parallel Lines $m{L_1} \parallel m{L_2} \ m{m_1} = m{m_2}$

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