

Slope

Calculated by dividing the *ryse* of the line by the *run* of the line.

Slope is *ryse over run*

Slope =
$$\frac{ryse}{run}$$

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Slope =
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$$\frac{ryse}{run} = \frac{y_1 - y_2}{x_1 - x_2}$$

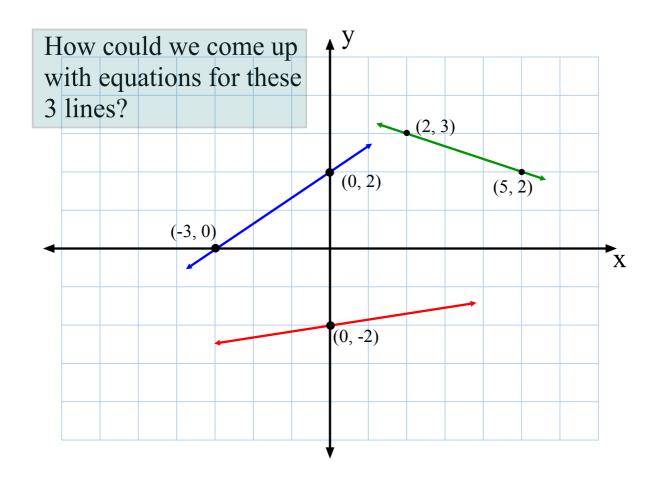


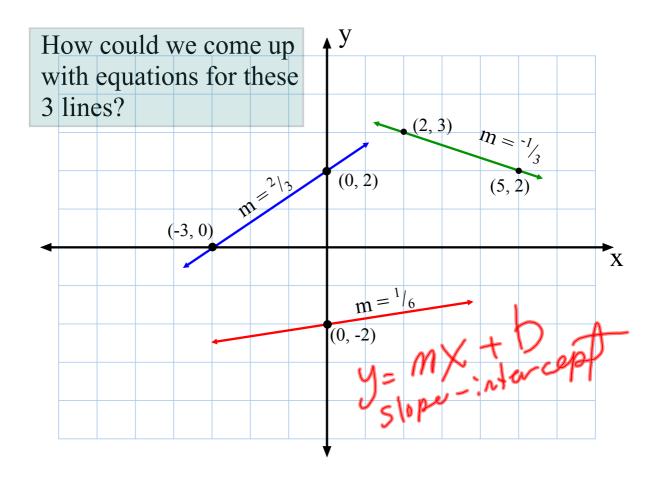
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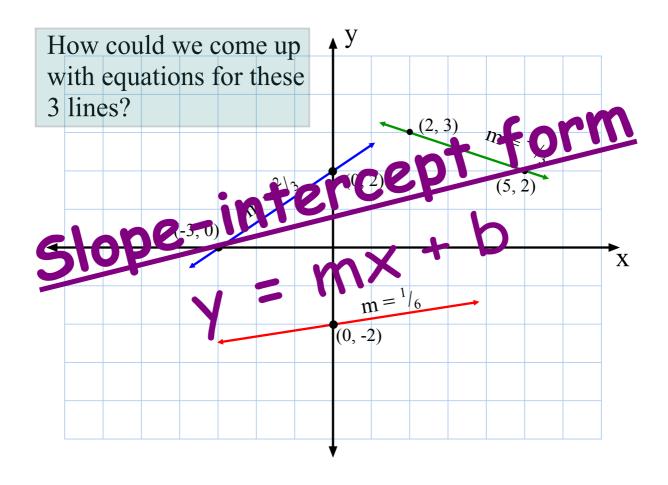
Slope is *ryse over run*

Slope =
$$\frac{ryse}{run}$$

$$\mathcal{M} = \frac{y_{1} - y_{2}}{run} = \frac{x_{1} - x_{2}}{x_{1} - x_{2}}$$







<u>Intercept</u>

The place a line crosses a given axis.

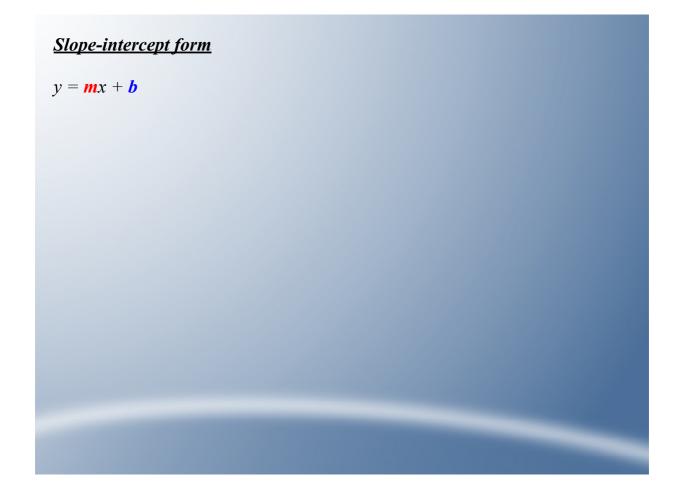
<u>y-intercept</u>

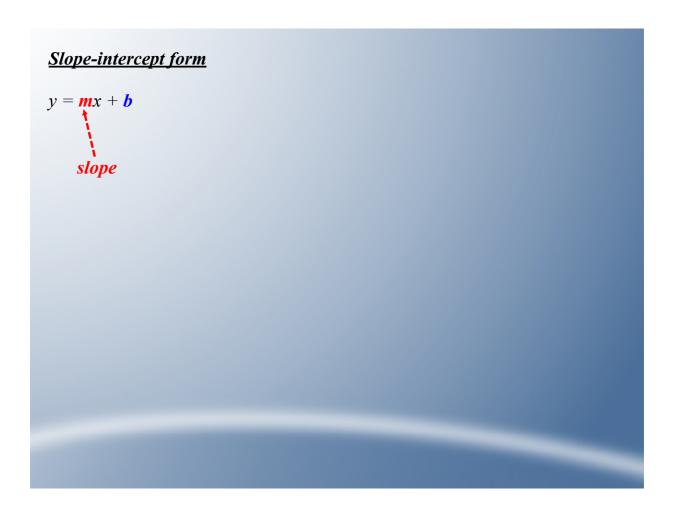
Where the line crosses the y axis.

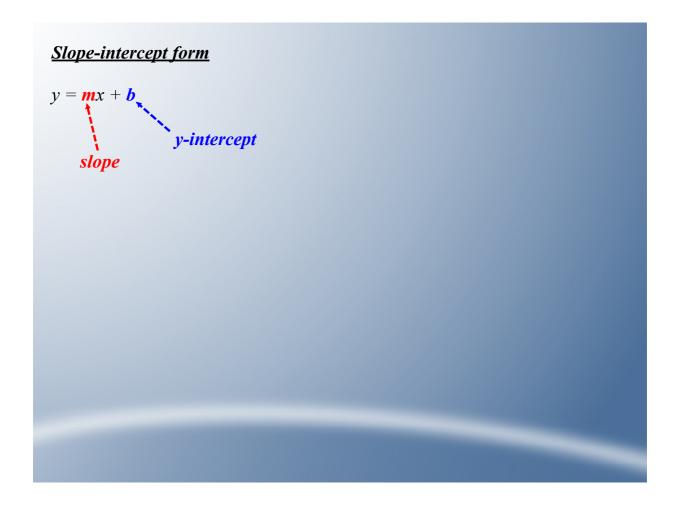
<u>x-intercept</u>

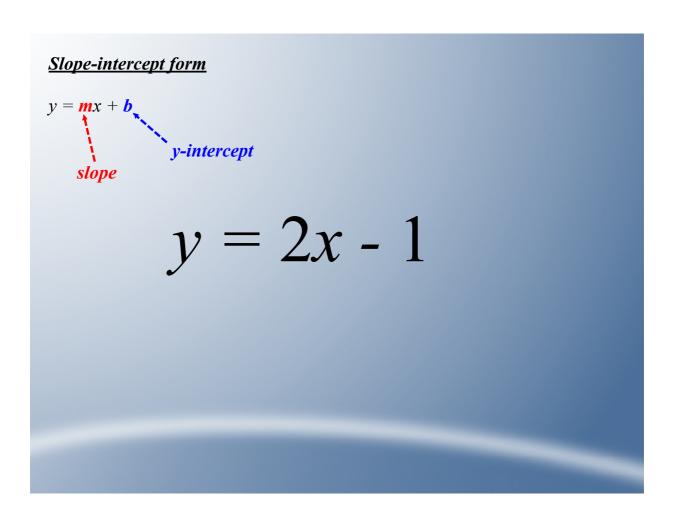
Where the line crosses the *x* axis.

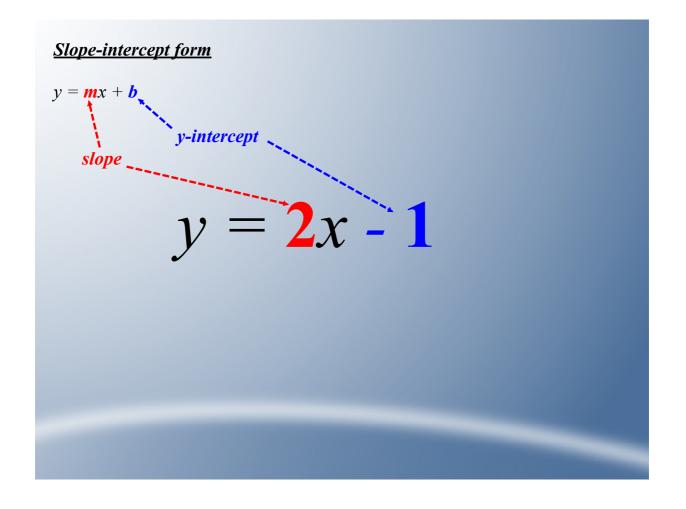
Slope-intercept form y = mx + b

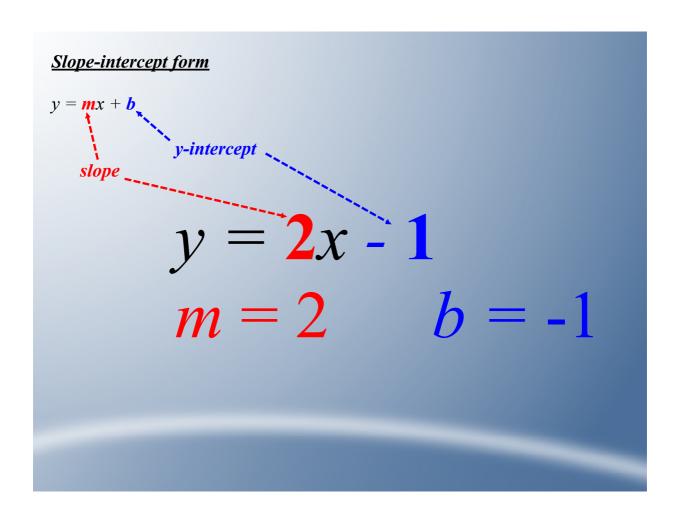


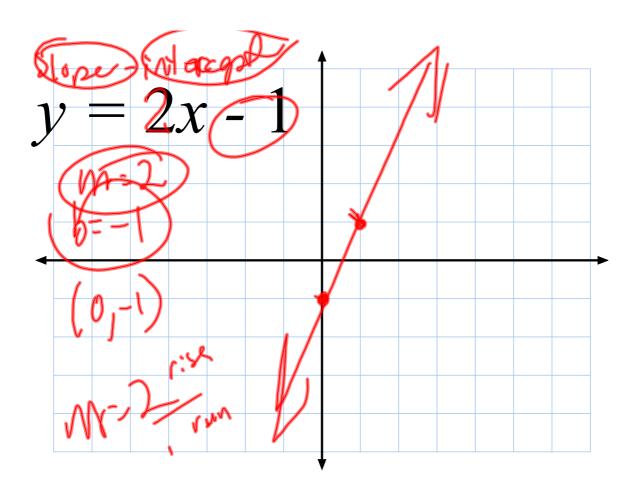


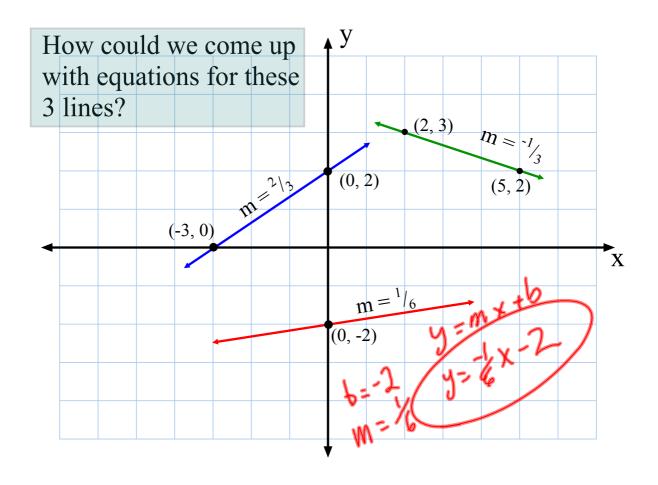


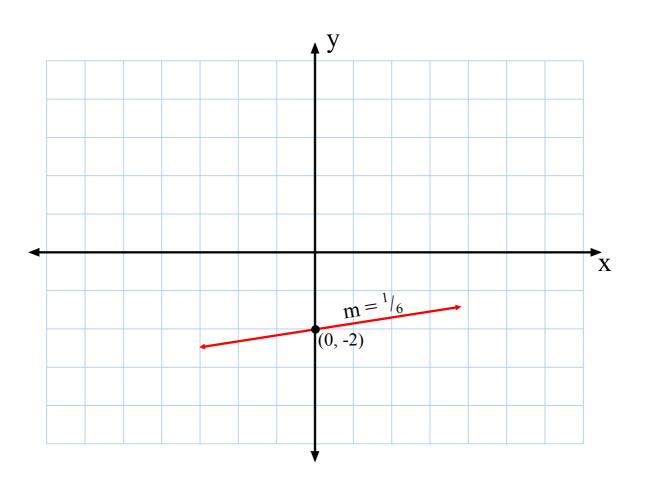


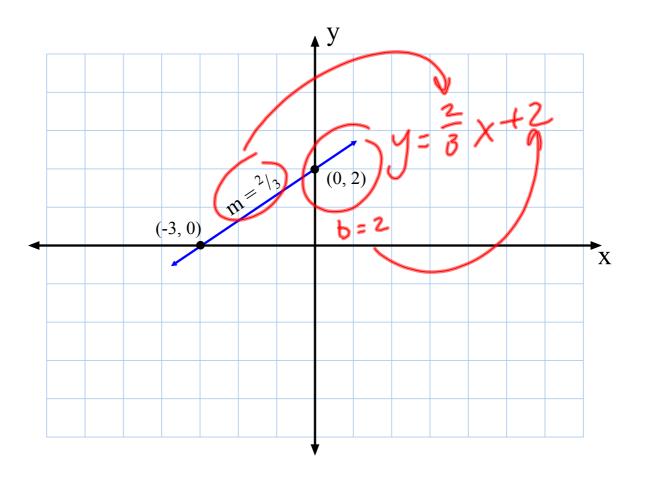


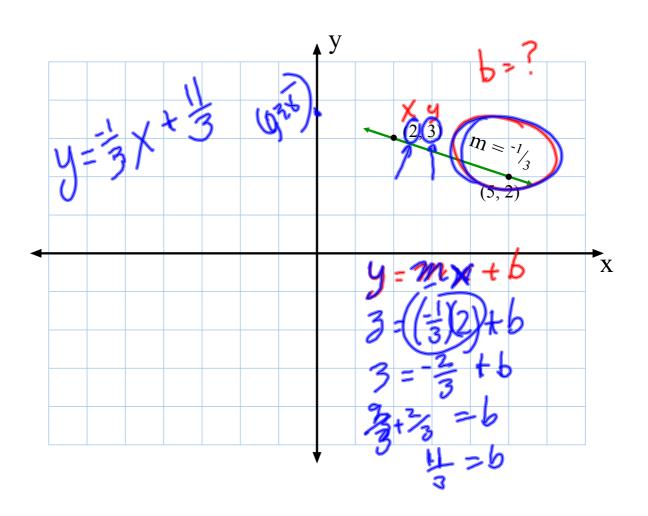


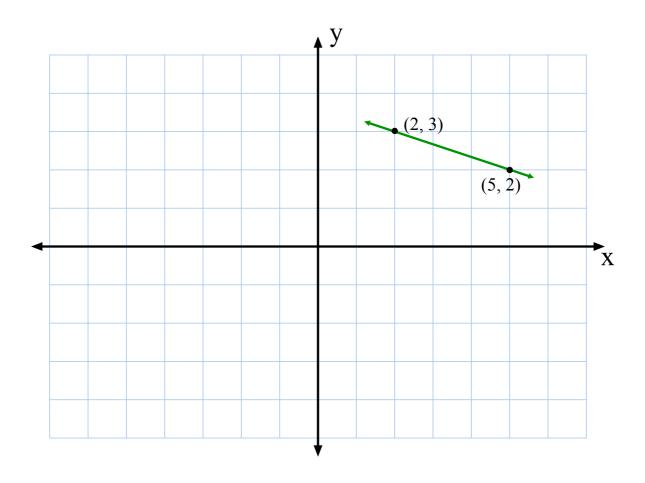




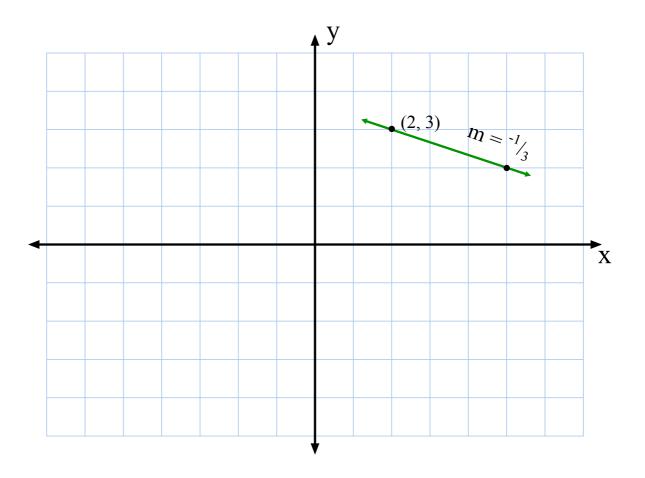


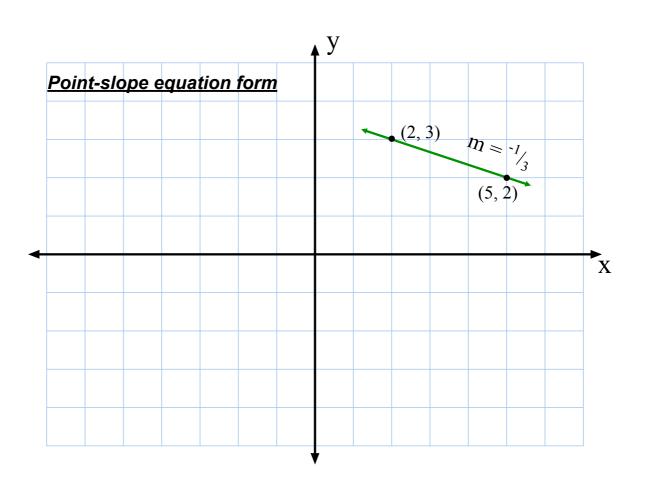


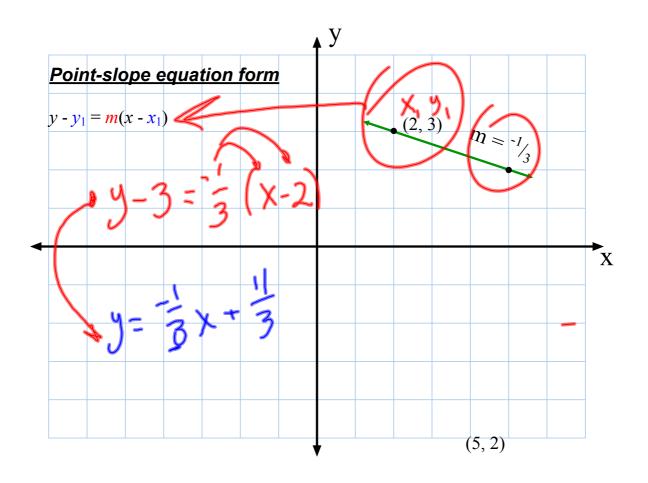


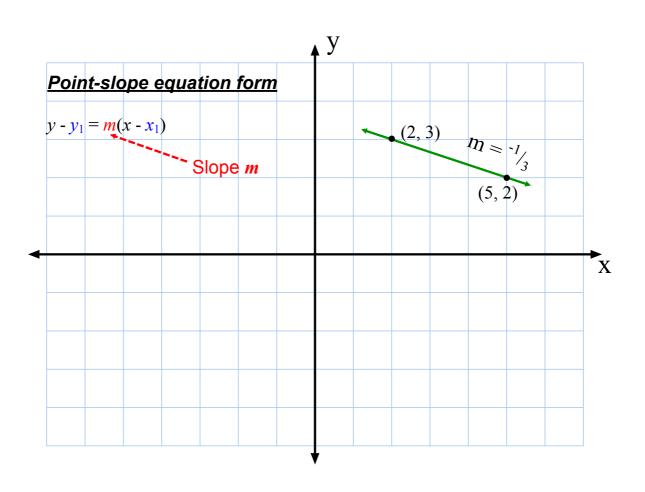


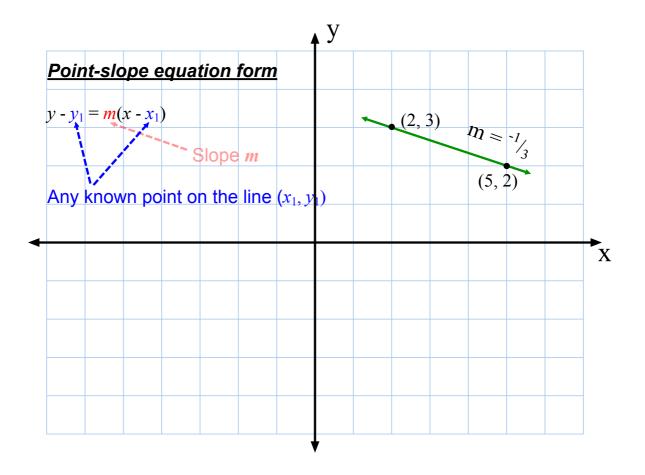
Line form name	Equation	What it gives us
Slope-intercept form	y = mx + b	Slope & y-intercept

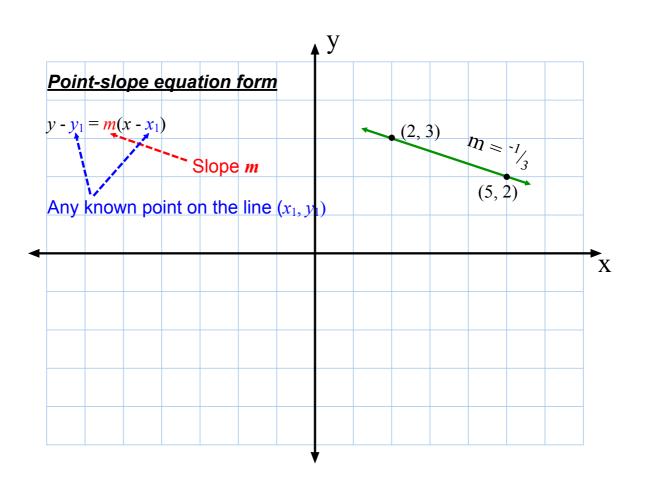


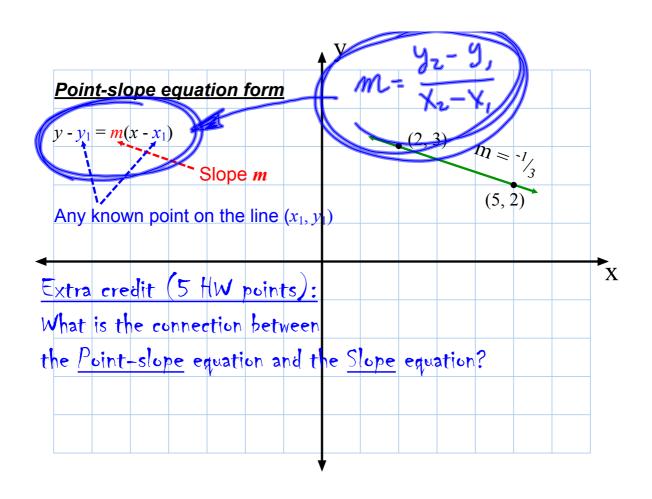


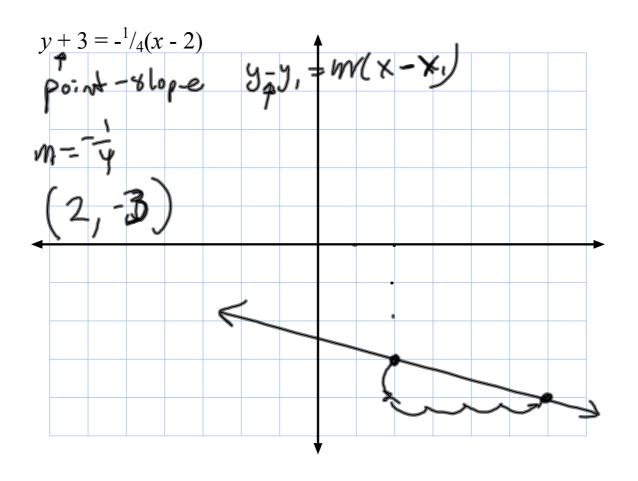


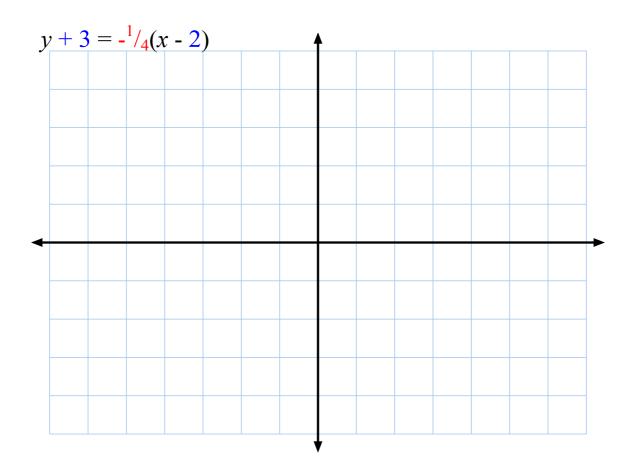




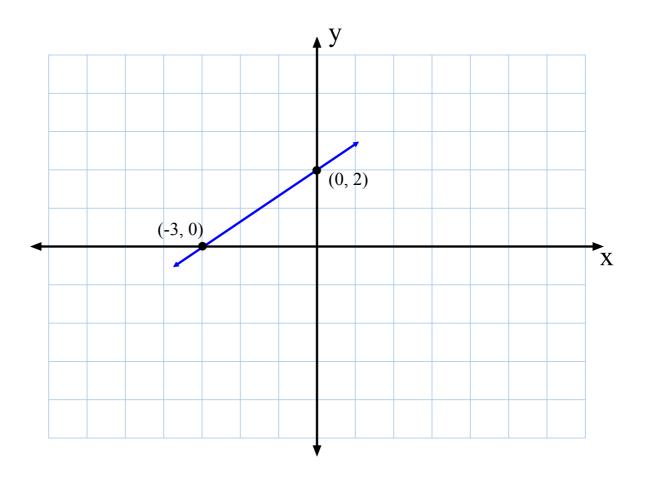


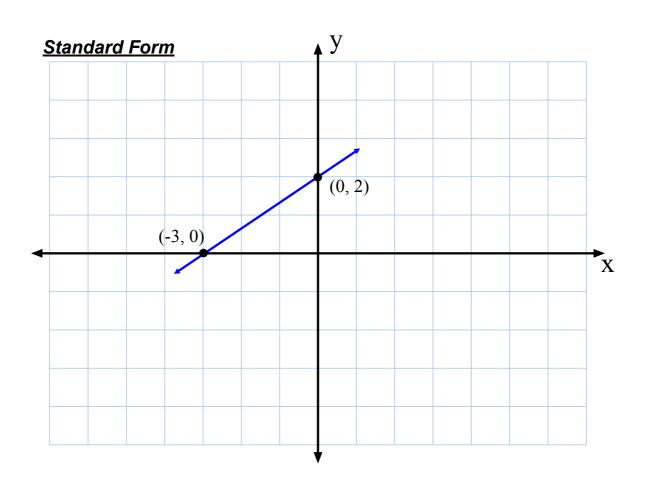


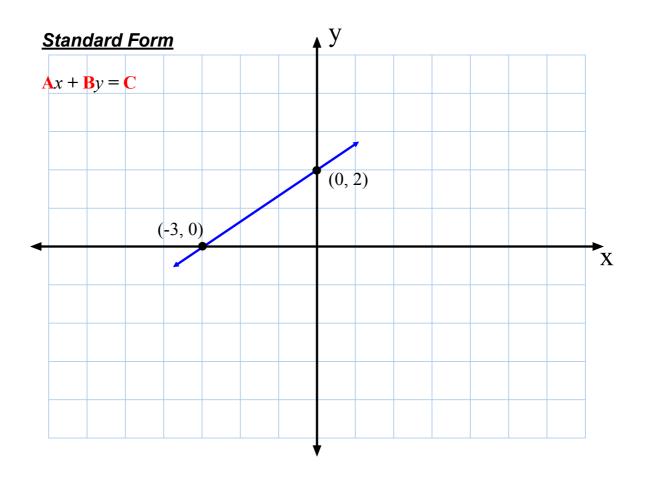


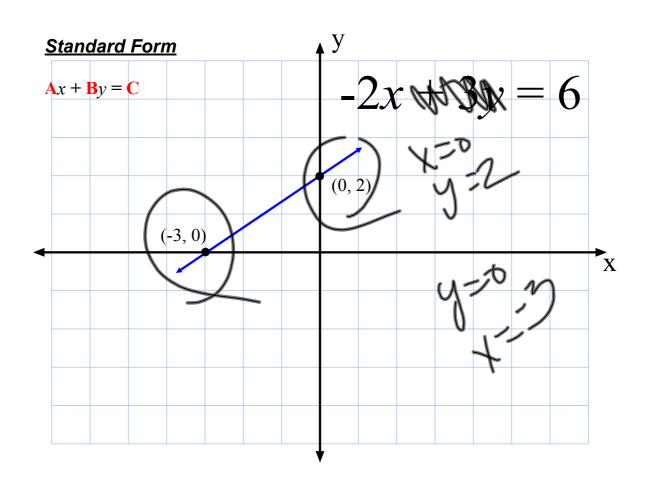


Line form name	Equation	What it gives us
Slope-intercept form	y = mx + b	Slope & y-intercept
Point-Slope form	$y - y_1 = m(x - x_1)$	Slope & 1 pt the line goes thru
	Hard Control of	

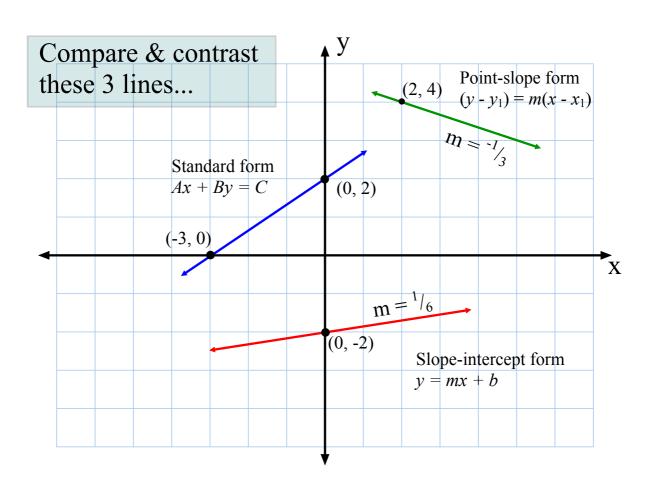


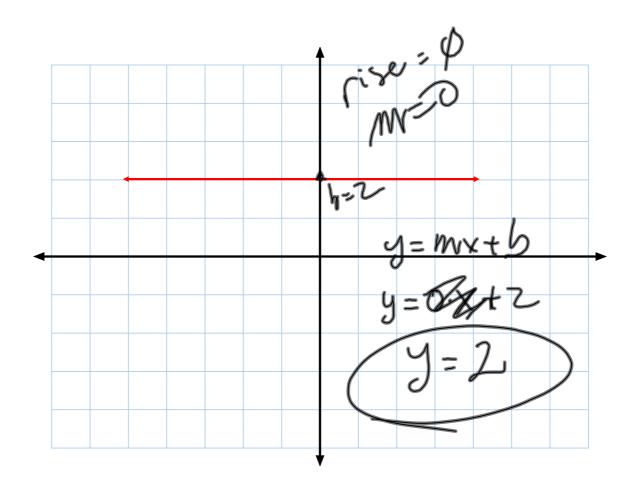


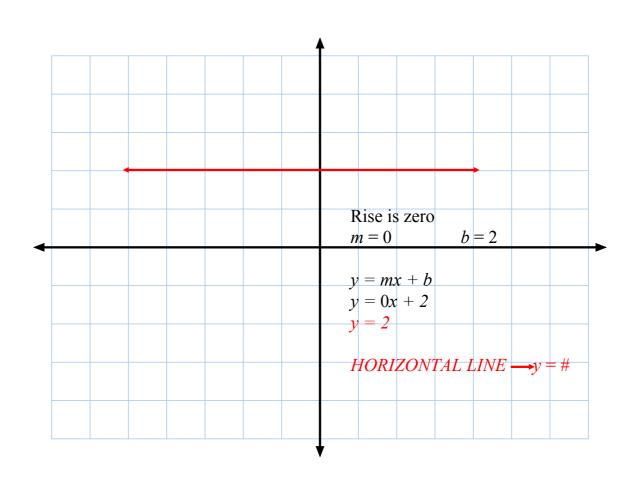


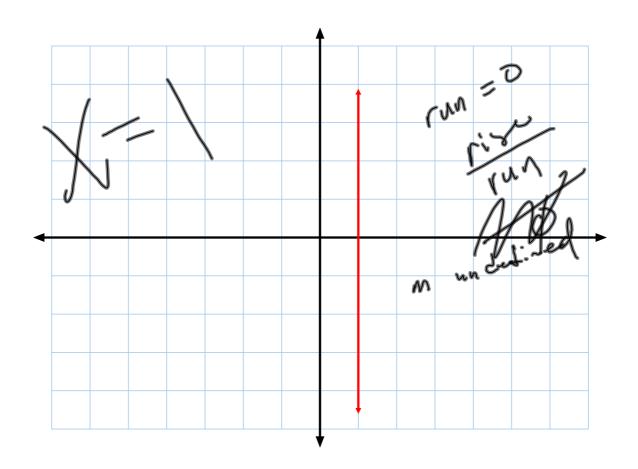


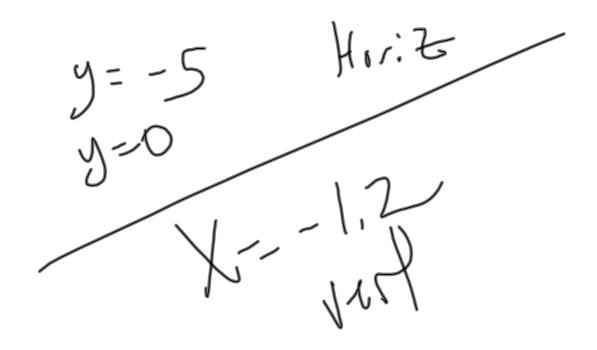
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Slope-intercept form	y = mx + b	Slope & <i>y</i> -intercept	
Point-Slope form	$y - y_1 = m(x - x_1)$	Slope & 1 pt the line goes thru	
Standard form	$\mathbf{A}x + \mathbf{B}y = \mathbf{C}$	x & y-intercepts	

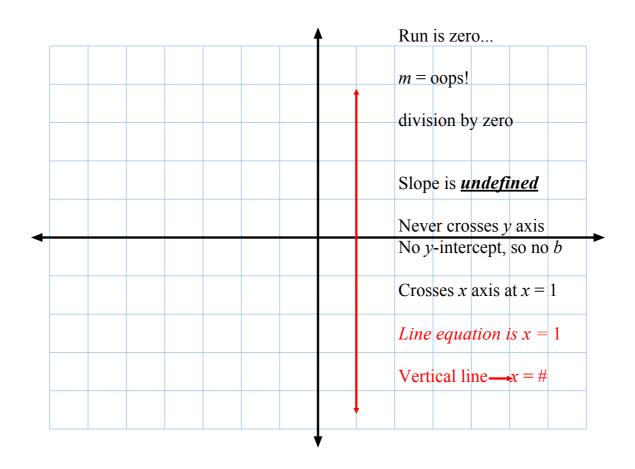


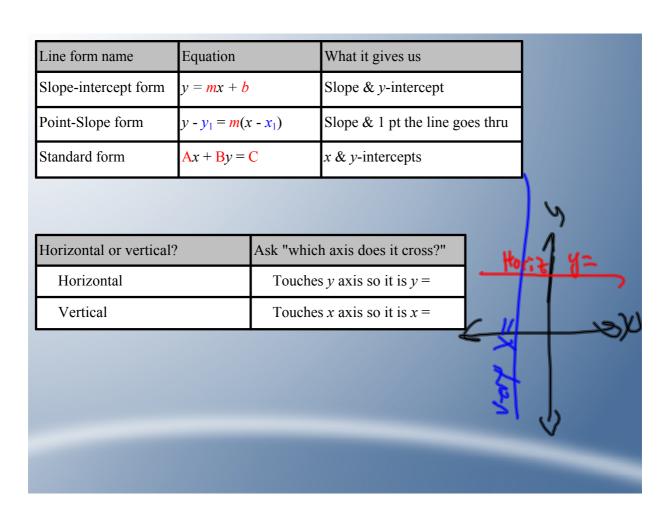












L3-5 HW Problems

Pg 155, #1-43 odd 48-51