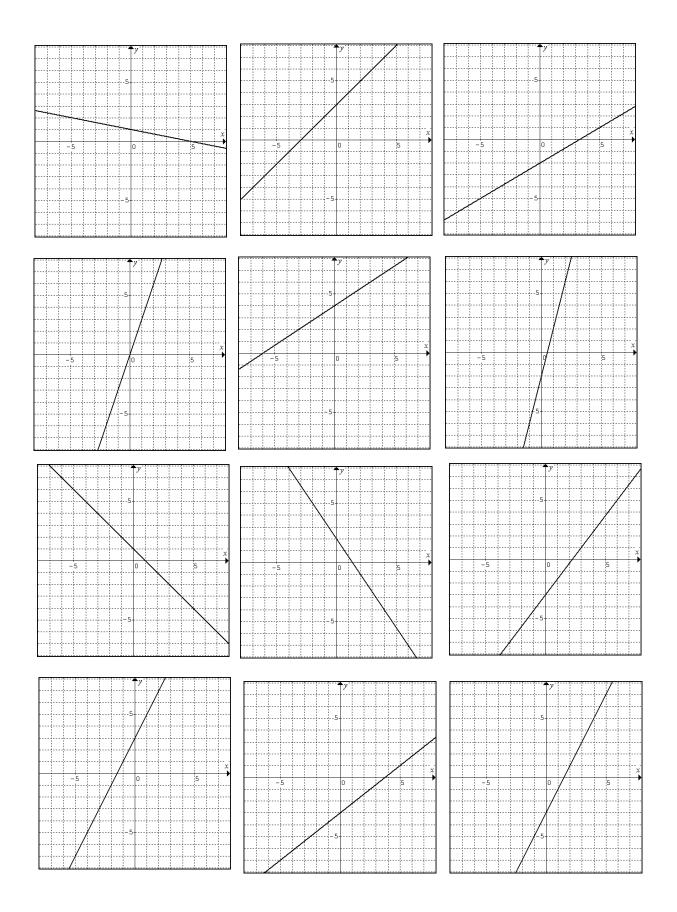
## Graphing Linear Equations

This project is designed for any algebra classroom. Students match the equation in standard form, in slope intercept form, the graph, the slope, and the y intercept for twelve problems.

Instructions: Page two should be enlarged 129% onto 11 by 17 inch paper. All other pages should be photocopied as they are, preferably on different colored papers, the brighter, the better.

Students should cut out the pieces and glue them onto the 11 by 17 inch page, matching the equations with their graphs, slopes, and y intercepts.



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Graphs of Linear equations
Page 1

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Graph	Standard Form		Graph	Standard Form
	Slope-Intercept Form			Slope-Intercept Form
	Slope			Slope
	y Intercept			y Intercept
Graph	Standard Form		Graph	Standard Form
	Slope-Intercept Form			Slope-Intercept Form
	Slope			Slope
	y Intercept			y Intercept
Graph	Standard Form			Standard Form
	Slope-Intercept Form		Graph	Slope-Intercept Form
	Slope			Slope
	y Intercept			y Intercept
Graph	Standard Form		Graph	Standard Form
	Slope-Intercept Form			Slope-Intercept Form
	Slope			Slope
	y Intercept			y Intercept
	Standard Form			Standard Form
Graph	Slope-Intercept Form		Graph	Slope-Intercept Form
	Slope		Опарт	Slope
	y Intercept			y Intercept
	Standard Form			Standard Form
Graph	Slope-Intercept Form		Graph	Slope-Intercept Form
	Slope		Отирп	Slope
	y Intercept			y Intercept

$$2x - y = -3$$

$$2x - y = 3$$

$$3x-y=0$$

## 4x - 3y = 9Equations in Standard Form

$$x+y=1$$

$$x-y=-3$$

$$x+5y=5$$

$$2x-3y=-12$$

$$6x + 4y = 8$$

$$3x - 5y = 10$$

$$4x-5y=15$$

$$4x-y=2$$

$$2x - y = -3$$

$$2x - y = 3$$

$$3x - y = 0$$

$$4x - 3y = 9$$

$$x+y=1$$

$$x-y=-3$$

$$x+5y=5$$

Equations in Standard Form

$$2x-3y=-12$$

$$6x+4y=8$$

$$3x-5y=10$$

$$4x-5y=15$$

$$4x - y = 2$$

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

$$y = \frac{4}{5}x - 3$$

$$y = 2x - 3$$

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

$$y=3x$$

$$y = 4x - 2$$

$$y=-x+1$$

Equations in Slope-Intercept Form

$$y = -\frac{1}{5}x + 1$$

$$y=x+3$$

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

$$y = \frac{3}{5}x - 2$$

$$y = 2x + 3$$

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

$$y = \frac{4}{5}x - 3$$

$$y=2x-3$$

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

$$y=3x$$

$$y = 4x - 2$$

$$y=-x+1$$

Equations in Slope-Intercept Form

$$y = -\frac{1}{5}x + 1$$

$$y=x+3$$

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

$$y = \frac{3}{5}x - 2$$

$$y=2x+3$$

Slope	$m=\frac{4}{3}$	$m=\frac{4}{3}$	
	$m=\frac{4}{5}$		$m=\frac{4}{5}$
	m=1		m=1
	$m=-\frac{1}{5}$		$m=-\frac{1}{5}$
	$m=\frac{2}{3}$	$m=\frac{2}{3}$	
	$m=-\frac{3}{2}$	$m=-\frac{3}{2}$	
	$m = -\frac{3}{2}$ $m = 4$ $m = 2$		m=4
			m=2
	$m=\frac{3}{5}$		$m=\frac{3}{5}$
	m=2		m=2
	m=3		m=3
	m=-1		m=-1

y Intercept

7	$\wedge$
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U	 V

$$b=3$$

$$b=-2$$

$$b=1$$

$$b = -3$$

$$b = -3$$

$$b=3$$

$$b=4$$

$$b = -3$$

$$b=2$$

$$b=1$$

$$b=-2$$

$$b=0$$

$$b=3$$

$$b=-2$$

$$b=1$$

$$b = -3$$

## b=-3

$$b=3$$

$$b=4$$

$$b = -3$$

$$b=2$$

$$b=1$$

$$b=-2$$