

Graphing Activity: Slope-Intercept/Standard Form

Part I. Match the line graph letter card with the slope intercept card that it equals.

Part II. Match the standard equation cards to the slope intercept and line graph letter card that it equals.

Part III. Fill in the chart below.

Graph Letter	Equation in $y = mx + b$ (Slope-intercept form)	Equation in $Ax = By = C$ (Standard form)
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		

Name: _____ Date: _____ Period: _____

ALGEBRA I GRAPHING ACTIVITY KEY

Part I. Match the line graph letter card with the slope intercept card that it equals.

Part II. Match the standard equation cards to the slope intercept and line graph letter card that it equals.

Part III. Fill in the chart below.

Graph Letter	Equation in $y = mx + b$ (slope-intercept form)	Equation in $Ax + By = C$ (standard form)
A	$y = x + 1$	$x - y = -1$
B	$y = -1/2 x + 2$	$x + 2y = 4$
C	$y = -3x + 4$	$3x + y = 4$
D	$y = 2/3 x - 2$	$2x - 3y = 6$
E	$y = 4/3 x + 1$	$-4x + 3y = 3$
F	$y = x - 4$	$x - y = 4$
G	$y = -1/2 x + 3$	$x + 2y = 6$
H	$y = -2/3 x - 2$	$2x + 3y = -6$
I	$y = 2x$	$2x - y = 0$
J	$y = 3x$	$-3x + y = 0$
K	$y = -2/3 x + 5$	$2x + 3y = 15$
L	$y = -6x + 2$	$6x + y = 2$
M	$y = 6x - 4$	$6x - y = 4$
N	$y = -x + 3$	$x + y = 3$
O	$y = 2x - 6$	$2x - y = 6$
P	$y = 2x - 3$	$-2x + y = -3$

$$y = x + 1$$

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

$$y = -3x + 4$$

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

$$y = \frac{4}{3}x + 1$$

$$y = x - 4$$

$$y = -\frac{1}{2}x + 3$$

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

$$y = 2x$$

$$y = 3x$$

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

$$y = -6x + 2$$

$$y = 6x - 4$$

$$y = -x + 3$$

$$y = 2x - 6$$

$$y = 2x - 3$$

$$2x - y = 0$$

$$-3x + y = 0$$

$$2x + 3y = 15$$

$$6x + y = 2$$

$$6x - y = 4$$

$$x + y = 3$$

$$2x - y = 6$$

$$-2x + y = -3$$

$$x - y = -1$$

$$x + 2y = 4$$

$$3x + y = 4$$

$$2x - 3y = 6$$

$$-4x + 3y = 3$$

$$x - y = 4$$

$$x + 2y = 6$$

$$2x + 3y = -6$$



