NAME	DATE	inner.
Module 8	Writing Linear Equations of Two Variables	guided notes
Lesson 4	Solving Linear Equations in Two Variables When Parameters Are Changed	notes
Lesson	Objectives	
given ir • Graph a	rm an equation into slope-intercept form when it is a standard form. an equation given in standard form. the effects of parameter changes on the appearance hs.	
	in the equation $y = mx + b$ are	
	and	
Changing the	e parameter <i>b</i> moves a line up or down the	_
without chan	ging its slope.	
Changing the	e value of the parameter <i>m</i> affects the	
and	of a line.	
Changing the	e parameter m to its opposite reciprocal creates a line	
perpendicula	r to the original line with the same <i>y</i> -intercept.	
For problems	1-3, graph the equations on a coordinate plane. Use a separate shee	et
of grid paper.		
Given y	$= -\frac{1}{4}x - 2$, determine the resulting equation when the y-intercept is	
increase	ed by six. Compare the graphs.	_
Given y	$= -\frac{1}{4}x - 2$, determine the resulting equation when the slope is	_
	d by -16 . Compare the graphs.	
	u by -10. Compare the graphs.	_

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Given y = 3x - 4, determine the resulting equation when the slope is divided by -6. Compare the graphs.

Slope-intercept form, point-slope form, and ______ are three

forms a linear equation can take.

Standard form of a linear equation is _____, where

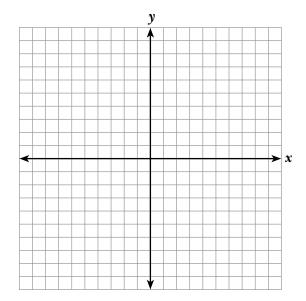
_____ and _____ cannot both be _____.

Slope-intercept form of a linear equation is ______.

To convert a linear equation from standard form to slope-intercept form,

solve it for_____, and write in the form _____

Graph the line 3x - y = 6. Find an equation of the line whose slope is one-third the slope of the given line and whose *y*-intercept is four more than the *y*-intercept of the given line. Graph the new line and compare the graphs.



Linear Equations

• _____ Form: y = mx + b• Point-Slope Form: ______ • Standard Form: Ax + By = C, where _____ and _____ cannot both be zero Module 8 Lesson 4 84

Guided Notes