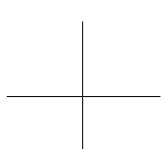
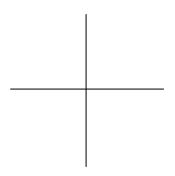
Sections 6.1 and 6.2 Basic of Linear Equations

1. Determine and label the intercepts and sketch the graphs of each of the following linear equations.

a)
$$2x + 3y = 6$$



b)
$$3x - 4y = 12$$



2. In each calculate the slope of the line passing through the two given points.

a)
$$(2,5)$$
 and $(4,11)$

b)
$$(-2, 1)$$
 and $(3, -8)$

c)
$$(1, 4)$$
 and $(-3, 8)$

3. In each determine an equation of a line in slope-intercept form which

a) has slope 4 and y-intercept
$$-6$$
.

b) has slope
$$-2$$
 and y-intercept 5.

c) has slope 5 and passes through the point
$$(-1,3)$$
.

d) has slope
$$-3$$
 and passes through the point $(2,4)$

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	(a)	(b)	(c)	(d)	
5.	· · ·	uation for a line in slope- points (2, 5) and (4, 1	-intercept form which passes 1).		
	(b) Is the point	(-1,-4) on the line you	found in part (a)? Explain.		
6.	enrollment, y, (a) Write down	by 200 students per year	students. It plans to increase r during each of the next 15 yand y which describes this part of years from now.	rears.	
	(b) How many	students will they have	ten years from now?	b)	
7.	\$400 per year,		tuition, y , is \$6000. If it incomes x and y which relates the	<u>*</u>	
8.	this student wil	ll complete 16 credits pe	ete 128 credits to graduate. For semester. Write an equation x , the number of se	n which	