Day 11

Name: _____ Date: _____

BLM 6.1.1
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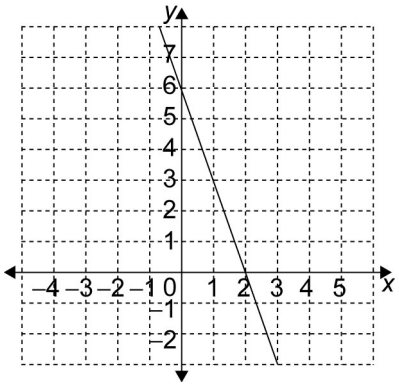
Practice: The Equation of a Line in Slope *y*-Intercept Form: $y = mx + b$

1. Copy and complete the table.

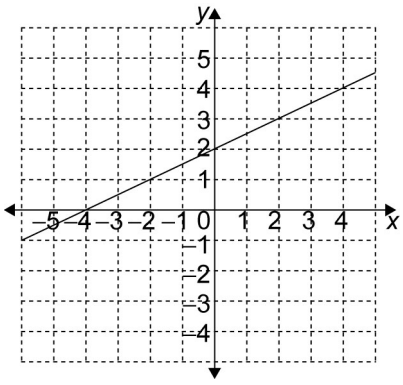
	Equation	Slope	*y*-Intercept
a)	$y = 4x + 1$		
b)	$y = \frac{x}{2} - 3$		
c)	$y = -2x$		
d)	$y = -x + 2$		

2. Find the slope and *y*-intercept of each line.

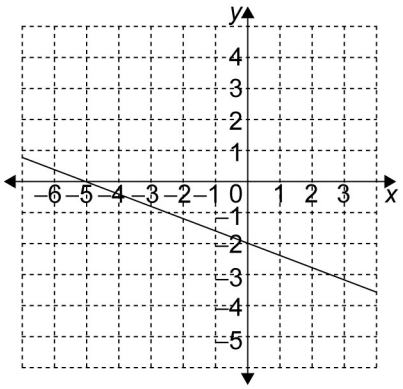
a)



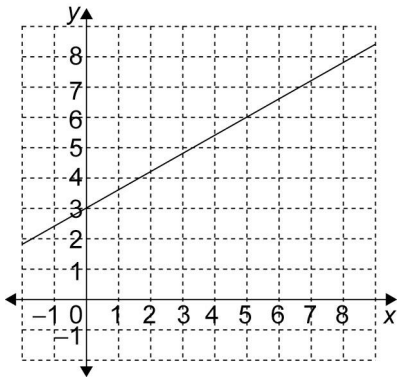
b)



c)



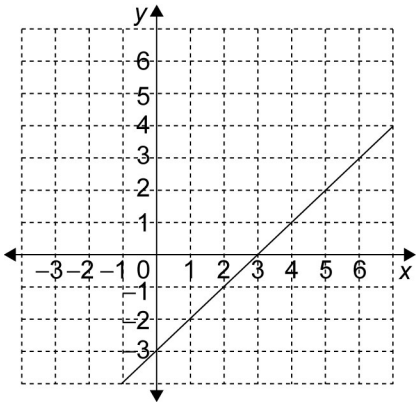
d)



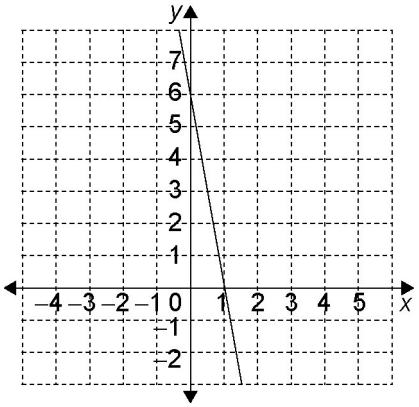
3. Write the equation of each line in question 2.

4. Write the equation of each line.

a)



b)



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5. Write the equation of a line with each slope and y-intercept.

	Slope	***y*-Intercept**
a)	-2	1
b)	$\frac{2}{3}$	-4
c)	5	0
d)	$-\frac{3}{2}$	3

6. Find the slope and y-intercept of each line, if they exist. Graph each line.

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

b) $y = x - 4$

c) $y = 5$

d) $y = -\frac{x}{2}$

Solutions for "The Equation of a Line in Slope y-intercept Form"

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3. **a)** $y = -3x + 6$

b) $y = \frac{1}{2}x + 2$

c) $y = -\frac{2}{5}x - 2$

d) $y = \frac{3}{5}x + 3$

4. **a)** $y = x - 3$

b) $y = -6x + 6$

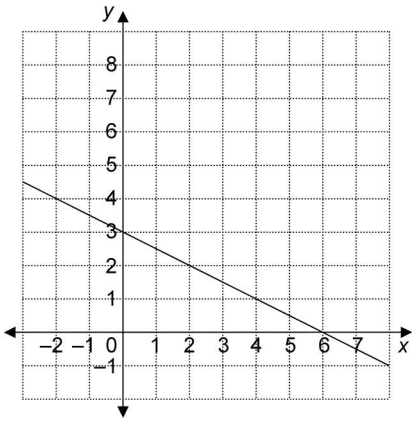
5. **a)** $y = -2x + 1$

b) $y = \frac{2}{3}x - 4$

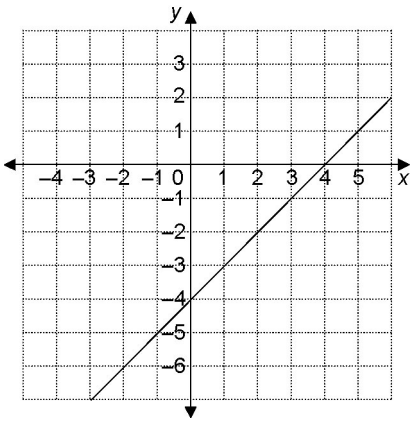
c) $y = 5x$

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

6. **a)** slope $-\frac{1}{2}$; y-intercept 3



b) slope 1; y-intercept –4



BLM 6.1.1 Practice: The Equation of a Line in Slope *y*-Intercept Form: $y = mx + b$

1.

	Equation	Slope	*y*-Intercept
a)	$y = 4x + 1$	4	1
b)	$y = \frac{x}{2} - 3$	$\frac{1}{2}$	–3
c)	$y = -2x$	–2	0
d)	$y = -x + 2$	–1	2

2. **a)** –3; 6

b) $\frac{1}{2}$; 2

c) $-\frac{2}{5}$; –2

d) $\frac{3}{5}$; 3

Solutions for "The Equation of a Line in Slope y-intercept Form"

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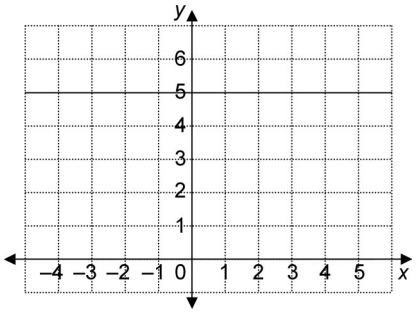
c) slope 0; y-intercept 5



d) slope $-\frac{1}{2}$; y-intercept 0