Name:		Date
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Date:

Topic:

Class:

Slope-Intercept Form

Main Ideas/Questions

Notes/Examples

Linear equations are frequently written in slope-intercept form:

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 ${\it m}$ is the _____ and ${\it b}$ is the _____

Examples

Directions: Given the slope and y-intercept of the line, write the equation in slope-intercept form.

2. slope =
$$-\frac{3}{5}$$
; *y*-intercept = 4

3. slope = -3;
$$y$$
-intercept = 2

4. slope = -1;
$$y$$
-intercept = 7

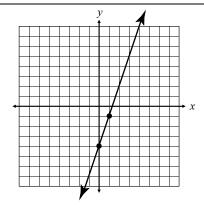
5. slope =
$$\frac{1}{4}$$
; *y*-intercept = 0

6. slope =
$$-\frac{5}{2}$$
; *y*-intercept = -3

Given a Graph

Directions: Identify the slope and y-intercept of the line on the graph. Then, write the equation of the line in slope-intercept form.

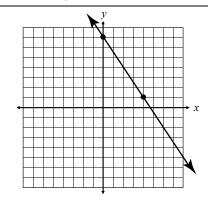
7.



m = _____ *b* = _____

Equation:

8.



m = _____ *b* = ____

Equation:

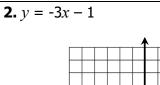
 <u> </u>	,
9. y	Tour tiers
Equation:	Equation:
11. y	12. <i>y</i>
Equation:	Equation:
13. <i>y</i>	14. y
x	14.
Equation:	Equation:
x	14.

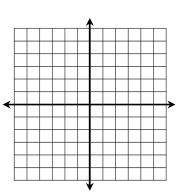
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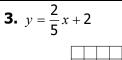
Main Ideas/Questions	Notes/Examples		
	U:	se the steps below to graph an equation using slope-intercept form:	
GRAPHING	0	Write the equation in slope-intercept form .	
LINEAR EQUATIONS (By Slope-Intercept)	2	Graph the y -intercept. This is always point (0, b).	
	3	Use the slope of the line to create more points. Remember slope is rise/run!	
	•	Use a ruler to draw a line that extends through the points, placing an arrow on both ends.	

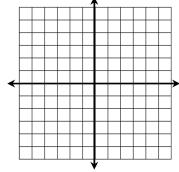
Directions: Graph each equation using the slope-intercept method.

1.
$$y = -x + 5$$

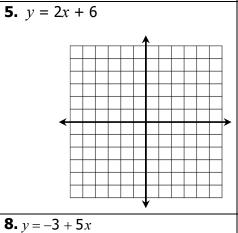


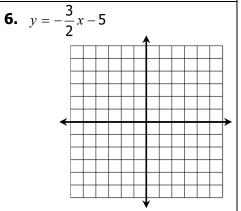


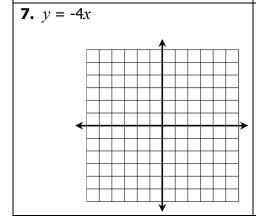


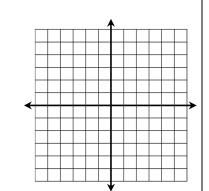


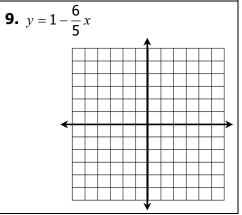
4.
$$y = -\frac{1}{4}x + 3$$



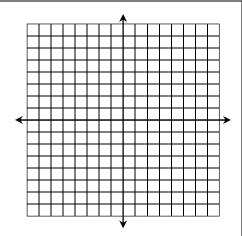




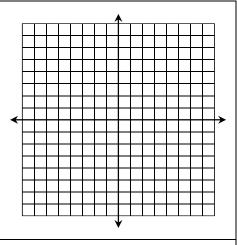




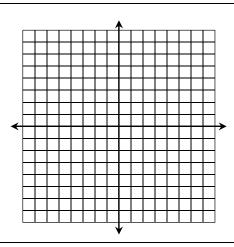
10. x + 3y = -3



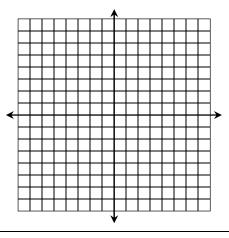
11. x - y = -5



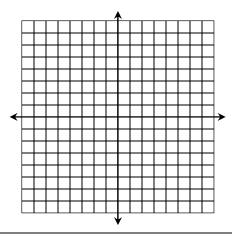
12. 5x - y = -3



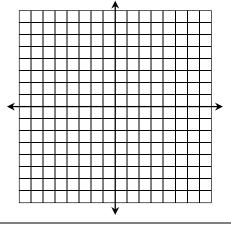
13. 4x + 3y = 21



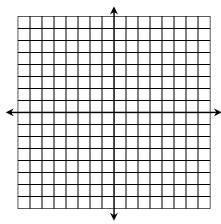
14. 2x - 4y = 20



15. 2x + 3y = 0



16. 10x - 8y = 24



17. 9x + 12y = 12

