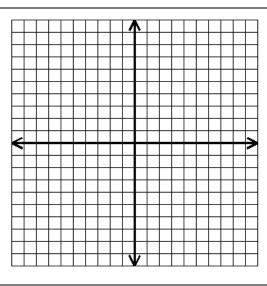
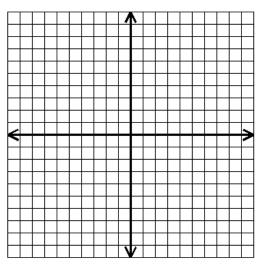
Review – Writing Equations of Lines

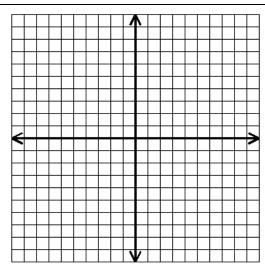
1. Graph 3x + y = -6



2. Graph x + 5y = 10

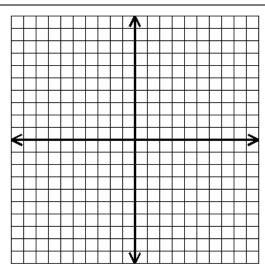


3. Graph 2x - 3y = -9

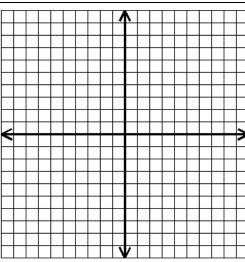


4.	Gra	ph	Х	=	-5
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m = _____

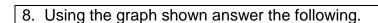


m = _____

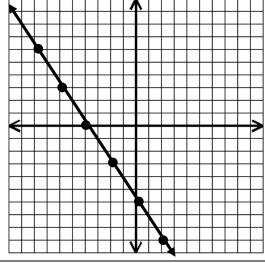


6. If (x, -1) is a solution to the equation x - 4y = 12, what is the value of x?

7. If the point (-2, y) is a solution to the equation 3x - 4y = 18, what is the value of y?



- a) What is the x-intercept?
- b) What is the y-intercept?
- c) What is the slope?
- d) What is the equation of the line?



Using the given information, write the equation of each line.

9. passes through (-3, -1) and (6, -4)

10. x-intercept of 2 and y-intercept of -3

11. slope of -4 and passes through (4, 7)

12. parallel to
$$y = \frac{4}{3}x + 2$$
 and goes through (-6, -2)

13. perpendicular to y = 5x + 4 and goes through (15, -7)
13. perpendicular to y = 3x + 4 and goes infought (13, -1)
14. slope -6 and y-intercept 5
14. Slope o and y intercept o
15. a horizontal line that passes through the point (9, -6)
16. a vertical line that passes through the point (-3, 1)
17. y varies directly as x, and y is 72 when x is 30
77. y varios alicotty as X, and y is 72 whom X is 60
18. slope of -5 and passes through (1, -2)
10. Slope of 6 and passes through (1, 2)
19. perpendicular to x = 1 and goes through (12, -5)
10. porportational to X = 1 and good anough (12, 0)

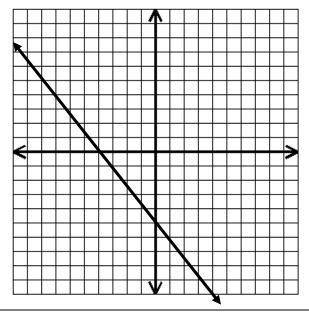
20. parallel to the linear parent function and goes through (-6, -3)				
·				
21. What is the equation of a line wi	th an undefined slope and passes through the point (-6, 3)?			
Tell whether the lines are parallel,	perpendicular, or neither.			
22	$y = 2x - 1$ and $y = -\frac{1}{2}x + 3$			
	$y = 2x - 1$ and $y = -\frac{1}{2}x + 3$			
23	$y = -\frac{1}{4}x - 2$ and $y = -4x - 3$			
	$y = -\frac{1}{4}x - 2$ and $y = -4x - 3$			
24	y = 5 and $x = -3$			
25	$2x + 4y = 12$ and $y = -\frac{1}{2}x - 2$			
	$2x + 4y = 12$ and $y = -\frac{1}{2}x - 2$			
26. Find the slope of the line through				
a) (-4, 2) and (-4, 5)	b) (6, 2) and (-1, 2)			
27. The amount of management as	rarion directly to the number of house worked. Com: come \$70.5			
27. The amount of money you earn varies directly to the number of hours worked. Cami earns \$72 at her after school job for working 9 hours. Write a direct variation equation for the amount of				
money y that she earns for working				

28. What is the equation of the graph shown?

29. What are the x-intercept and y-intercept of the graph shown?

x-intercept_____

y-intercept_____

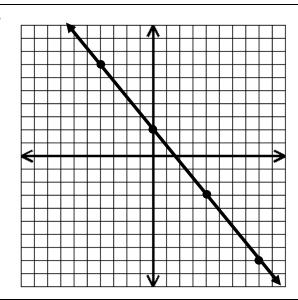


30. Write a function that can be used to find the values of f(x) in the table below.

X	1	2	3	4	5	6
f(x)	3	7	11	15	19	23

31. Determine the rate of change of the line shown.

- A. $\frac{5}{4}$
- B. $\frac{4}{5}$
- C. $-\frac{5}{4}$
- D. $-\frac{4}{5}$



32. What is the y-intercept of 2y - 3x = -8?

33. What is the slope of 2y = -4x - 10?

34. Which table identifies	points on the line defined by	v the equation $y - 2x = -4$?
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A.

Х	у
-4	4
-1	-2
3	-10
6	-16

В.

Х	У
-2	-8
0	-4
3	2
7	10

С

Х	у
-4	12
-1	6
3	-2
5	-6

D.

Х	у
-3	-2
0	4
2	8
5	14

35. Which function has (-2, 3) on its graph?

A.
$$2x - y = 7$$

C.
$$y = 3x + 3$$

B.
$$y = -2x - 7$$

D.
$$3x + 2y = 0$$

36. Sue adds charms to a charm bracelet. The table shows how the weight of the bracelet changes each time she adds a charm.

Number of	Weight		
Charms	in ounces		
(x)	(y)		
0	2.2		
1	2.65		
2	3.1		
3	3.55		
4	4		

What is the slope of the line that fits this data?

What does the slope represent?

What does the y-intercept represent?

Answers to Review in random order:

y = -5	$y = -\frac{1}{3}x - 2$	$y = \frac{12}{5}x$	(-4, 0)	-2	
$y = -\frac{5}{4}x - 5$	x = -3	$y = -\frac{3}{2}x - 6$	(0, -6)	0	
x = -6	y = -6	undefined	parallel	0	>
$y = -\frac{1}{5}x + 2$	y = -5x + 3	perpendicular	(-4, 0)	В	
y = -6x + 5	y = x + 3	perpendicular	(0, -5)	D	
$y = \frac{3}{2}x - 3$	$y = \frac{2}{3}x + 3$	undefined	neither	-6	
y = -4x + 23	y = -3x - 6	f(x) = 4x - 1	(0, -4)	$-\frac{3}{2}$	
$y = -\frac{1}{5}x - 4$	$y = \frac{4}{3}x + 6$	y = 8x	9/20 or .45	8	V
С	The weight of each charm		The weight of the bracelet w/no charms on it		

