

Name: _____

Math 1 Test Chapter 2, Practice Test

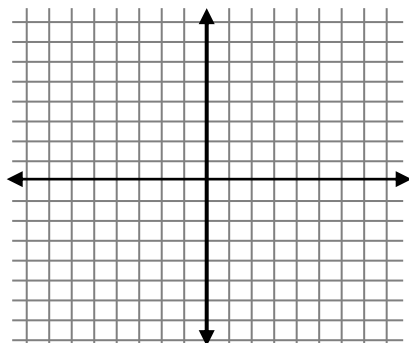
1. Find the slope and y-intercept of each line

a. $y = \frac{5}{3}x + 3$ slope = _____
y-intercept = _____

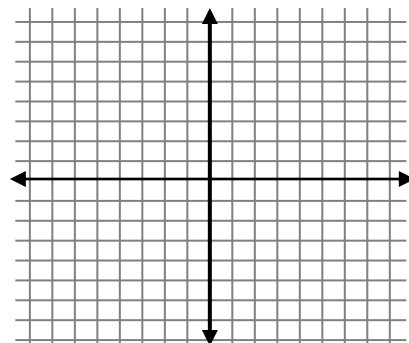
b. $y = 8 - \frac{1}{2}x$ slope = _____
y-intercept = _____

Graph each line:

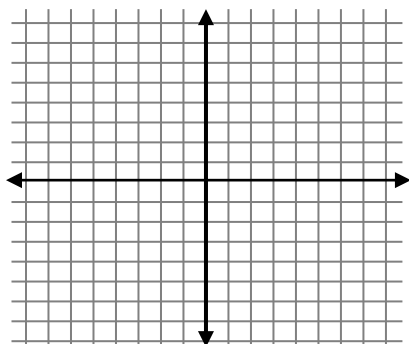
2. $y = -x - 3$



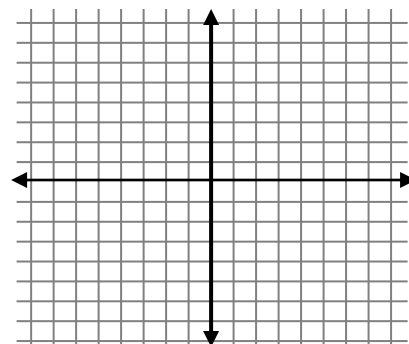
3. $y = \frac{4}{5}x + 1$



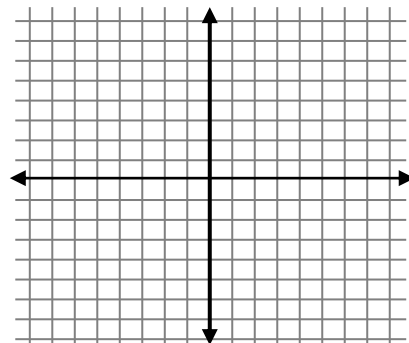
4. $y = 2$



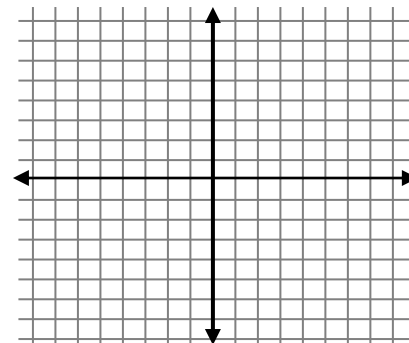
5. $y = 4 = \frac{-1}{2}(x - 6)$



6. $2x + 7y = 14$

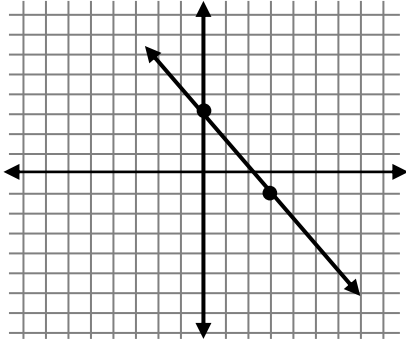


7. $3x - y = 6$



Find the equation of each line:

8.



Slope-intercept form: _____

9. Through the points $(-1, 1)$ and $(3, 9)$

Slope-intercept form: _____

10. Through the points $(2, -3)$ and $(-3, -6)$

11.

x	1	-3	-7	-11
y	-8	-5	-2	1

Point-slope form: _____

Point-slope form: _____

12. Convert each equation to standard form:

a. $y = \frac{1}{5}x - 3$

b. $y + 2 = -4(x + 3)$

Standard form: _____

Standard form: _____

13. You are reading a book and you currently have 300 pages left to read. You are able to read 15 pages each hour. Write an equation that represents how many pages (y) you will have left to read after x hours. Use your equation to find how many hours until you have finished reading your book.

14. You have \$56 to spend at the county fair. Rides cost \$6 each and snacks cost \$4 each. Write an equation that represents the number of rides (x) and snacks (y) that you can buy. Use your equation to determine how many snacks you can buy if you do not go on any rides.

Fill in the slopes for each line in the table:

	Line	Slope	Parallel Slope	Perpendicular Slope
15.	Through $(-3,2)$ and $(1, -5)$			
16.	$y = -2x + 9$			
17.	$x - 5y = 6$			

Find the equation of each line in point-slope form:

18. Through the point $(-1, 6)$

Parallel to the line $2x + 7y = 3$

Point-slope form: _____

19. Through the point $(2, -3)$

Perpendicular to the line $y = -6x + 5$

Point-slope form: _____

20. Determine if the lines are parallel, perpendicular, or neither:

$$y = \frac{1}{4}x - 5 \quad \text{and} \quad 8x + 2y = 10$$

Extra Credit: