

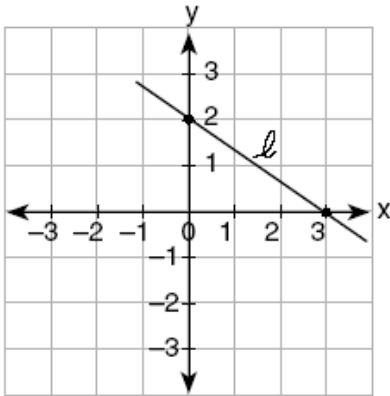
Name _____

Date _____

Math 8

Module 4 Review: Linear Equations

1) What is the slope of line l in the accompanying diagram?



(a) $-\frac{3}{2}$

(c) $\frac{2}{3}$

(b) $-\frac{2}{3}$

(d) $\frac{3}{2}$

2) What is the slope of the line containing the points (3, 4) and (-6, 10)?

(a) $\frac{1}{2}$

(c) $-\frac{2}{3}$

(b) 2

(d) $-\frac{3}{2}$

3) If the value of dependent variable y increases as the value of independent variable x increases, the graph of this relationship could be a

(a) horizontal line

(c) line with a negative slope

(b) vertical line

(d) line with a positive slope

8) The line $y = \frac{3}{2}x - 6$ has

(a) a slope of $\frac{3}{2}$ and a y-intercept of -6

(b) a slope of $-\frac{3}{2}$ and a y-intercept of 6

(c) a slope of 3 and a y-intercept of -2

(d) a slope of -3 and a y-intercept of -6

9) The y – intercept of the equation $y = -6x$ is

(a) 0

(c) 1

(b) -6

(d) 6

10) What is the slope of the line that passes through the points $(0, 0)$ and $(-1, -8)$?

(a) 0

(c) No slope

(b) -8

(d) 8

11) Which equation represents the values in the table?

x	-1	0	1	2	3
y	5	7	9	11	13

a. $y = 2x + 8$

b. $y = 2x + 7$

c. $y = 3x + 7$

d. $y = 2x - 7$

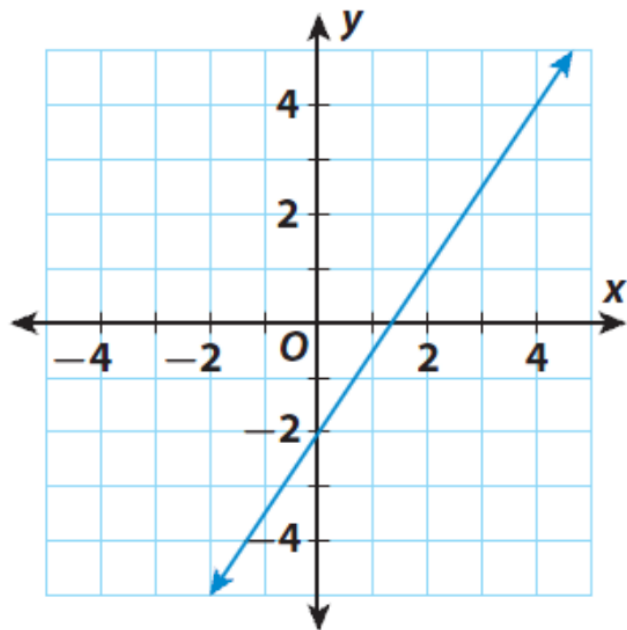
12) Which equation represents the equation graphed to the right?

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

(c) $y = \frac{2}{3}x - 2$

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

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



13) Which equation represents a nonproportional relationship?

(A) $y = 3x + 0$

(C) $y = 3x + 5$

(B) $y = -3x$

(D) $y = \frac{1}{3}x$

14) The slope and y-intercept of the equation $y = 6 - 3x$ are

(a) slope = 3; y-intercept = 6

(c) slope = 6; y-intercept = -3

(b) slope = -6; y-intercept = -3

(d) slope = -3; y-intercept = 6

15) Vincent's savings over several weeks are shown in the table. If a linear function models Vincent's savings over time, how much money did he initially have?

Time (weeks)	Savings (dollars)
2	75
4	115
6	155
8	195
10	235

(a) 0

(c) 20

(b) 75

(d) 35