Graphing

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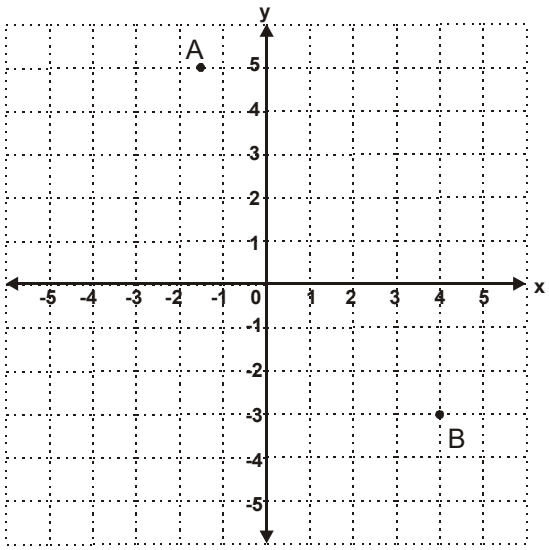
GRAPHING 1

1. Is (-1,5) a solution to y = 2x + 3? _____

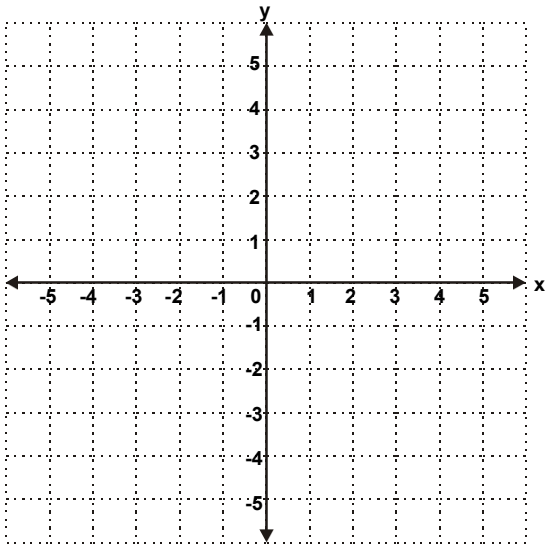
2. Complete the following:



a. Name point A and point B.

A _____

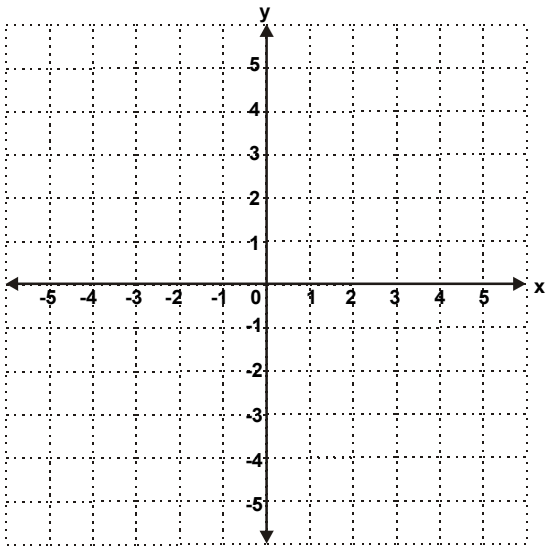
B _____



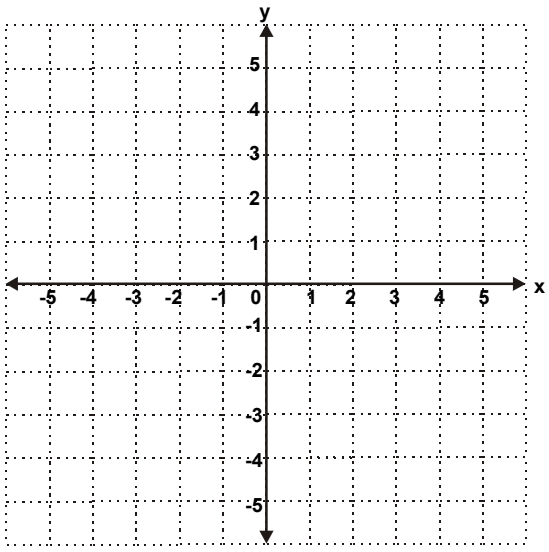
b. Plot the points (-2,5) and (0,-3).

3. Graph each linear equation.

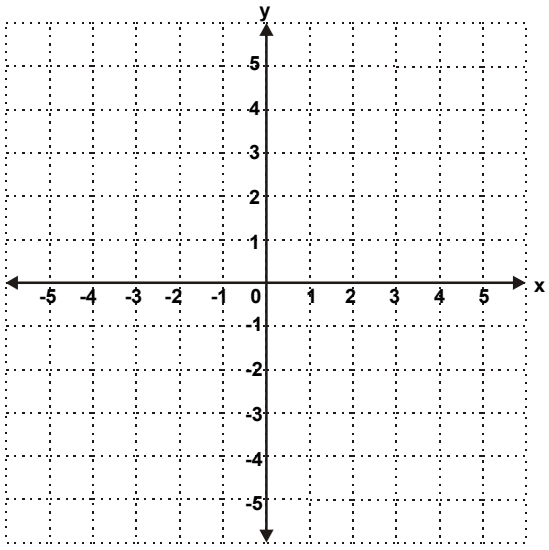
a. $y = x - 4$



b. $y = -2x + 3$



c. $y = 5 - x$

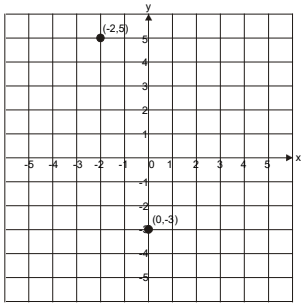


ANSWER KEY

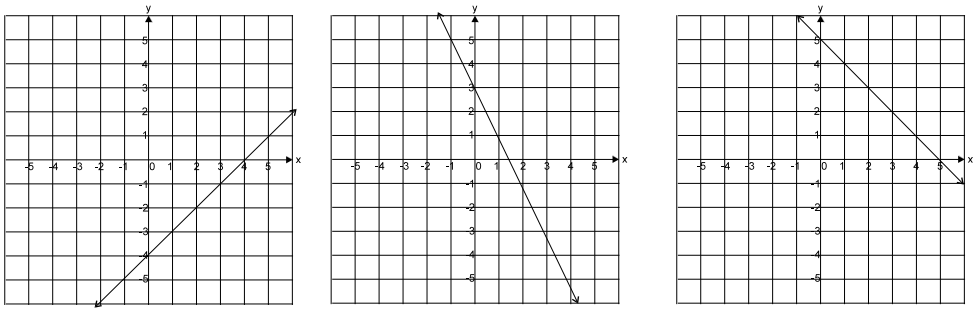
1. yes

2. a. A (-1.5,5) B (4,-3)

b.



3. a. b. c.



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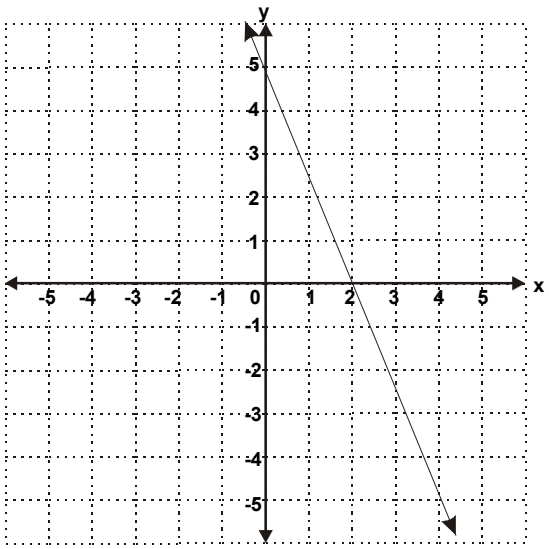
GRAPHING 2

1. Given the graph of the line, determine the following:



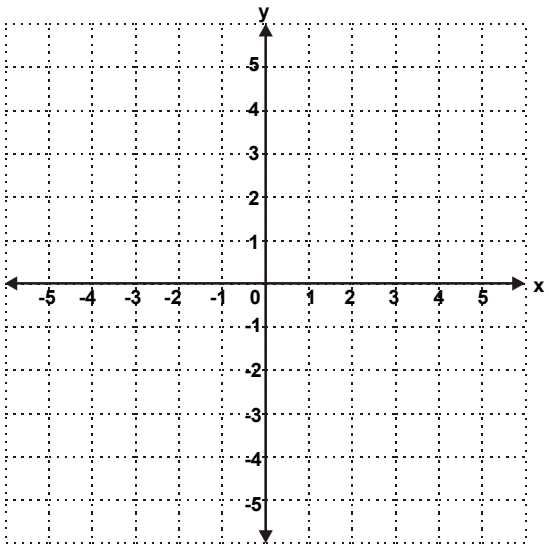
a. x-intercept _____

b. y-intercept _____

c. slope _____

d. equation _____

2. Given the equation y = 3x - 3, determine the following:



a. x-intercept _____

b. y-intercept _____

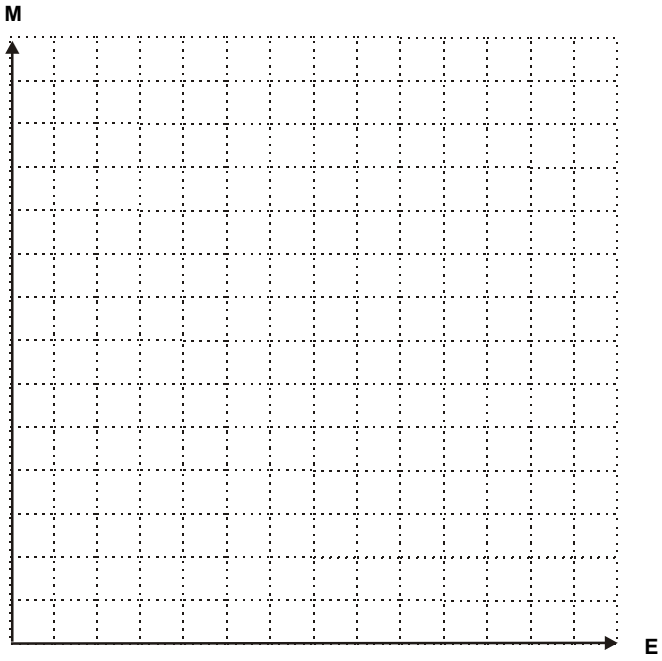
c. slope _____

d. graph _____

3. The weight of an object on earth, E, and its corresponding weight on the moon, M is given by the formula $M = \frac{1}{6}E$.

a. Complete the table of values and graph $M = \frac{1}{6}E$.

E	M



b. How much would a 120-pound woman weigh on the moon?

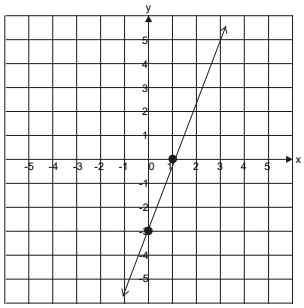
c. How much would a 40-pound moon rock weigh on Earth?

ANSWER KEY

1. a. (2,0) b. (0,5) c. -5/2 d. y = -5/2x + 5

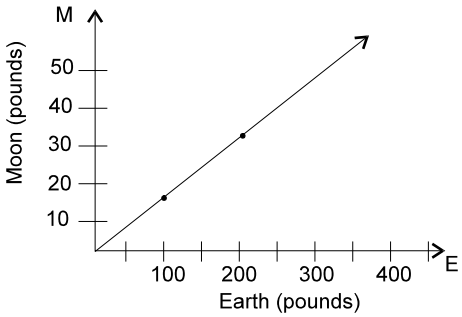
2. a. (1,0) b. (0,-3) c. 3

d.



3. a.

E	M
0	0
100	16.7
200	33.3



b. 20 pounds

c. 240 pounds

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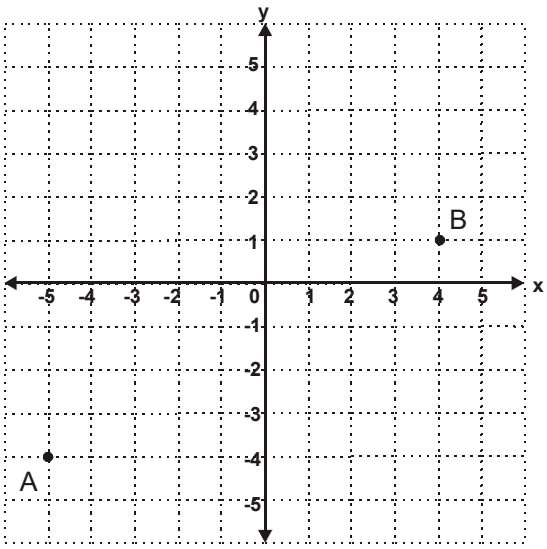
GRAPHING 3

1. Is (-1,9) a solution to y = 6x - 3? _____

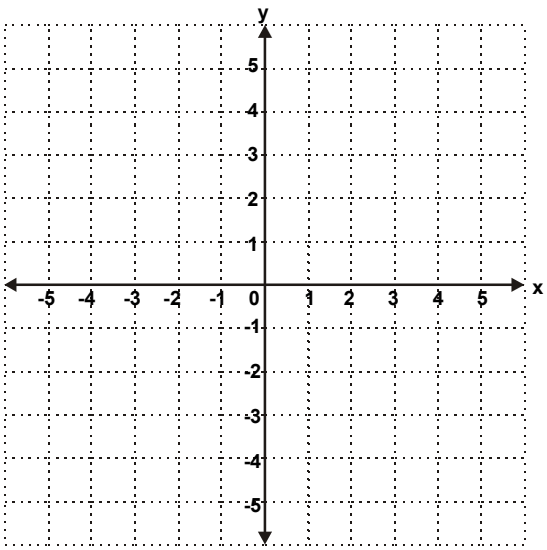
2. Complete the following



a. Name points A and B.

A _____

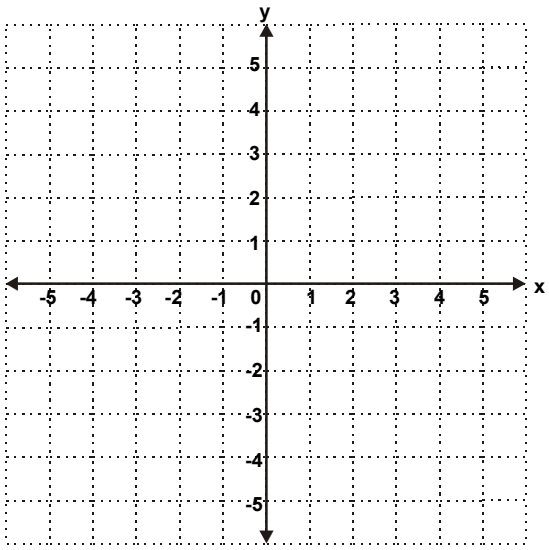
B _____



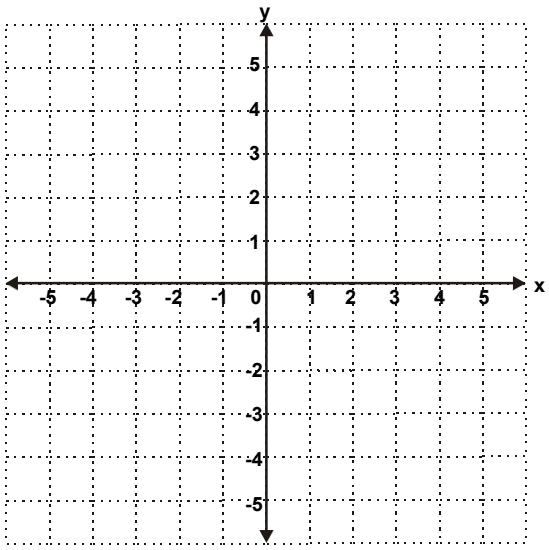
b. Plot the points (3,-1) and (-4,0)

3. Graph each linear equation.

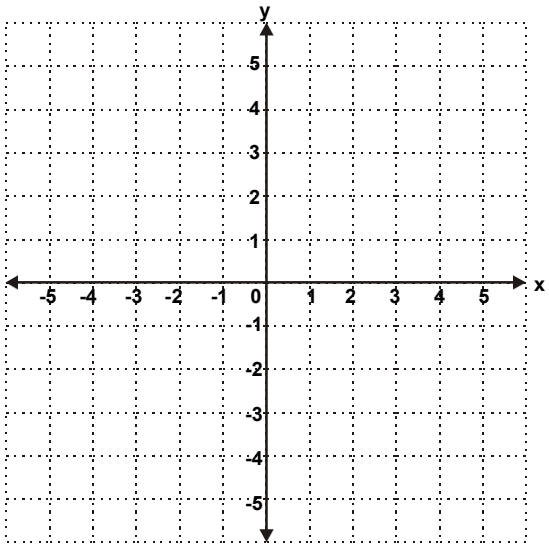
a. $y = x - 3$



b. $y = -2x - 1$



c. $y = 4 - x$

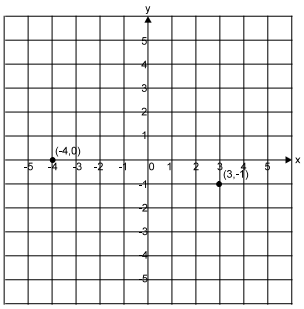


ANSWER KEY

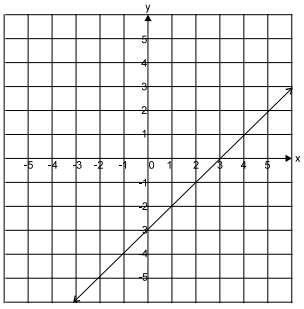
1. no

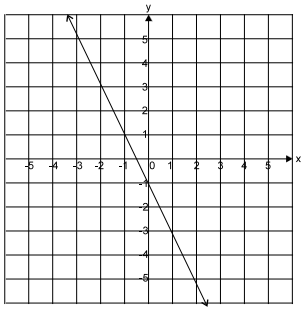
2. a. A (-5,-4) B (4,1)

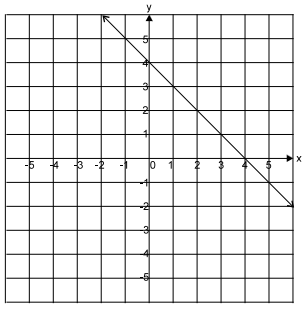
   b.



3. a. b. c.







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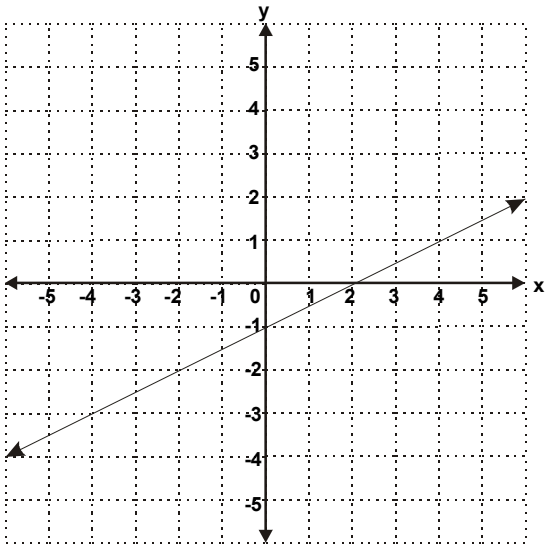
GRAPHING 4

1. Given the graph of the line, determine the following:



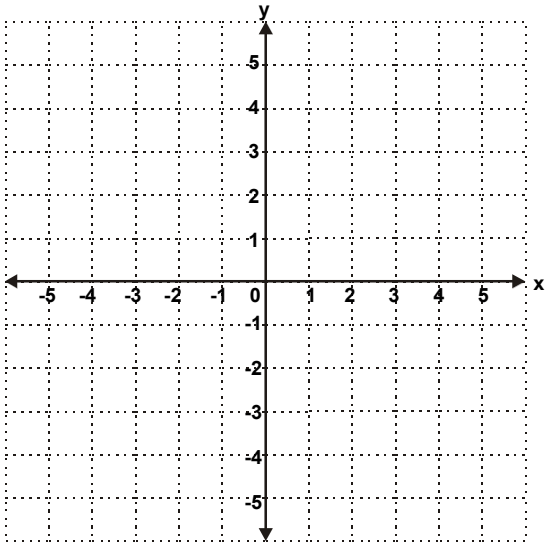
a. x-intercept _____

b. y-intercept _____

c. slope _____

d. equation _____

2. Given the equation y = 3 - 1.5x, determine the following:



a. x-intercept _____

b. y-intercept _____

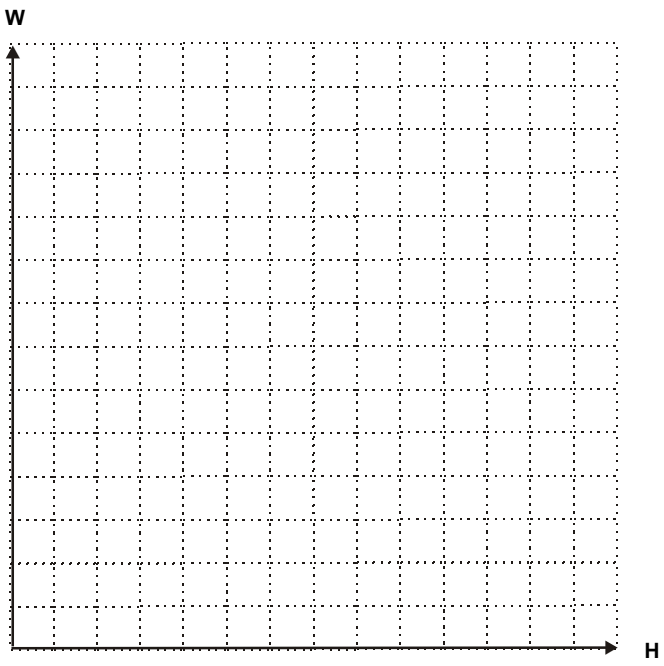
c. slope _____

d. graph _____

3. The mass of water, W, contained in a human body of mass H is given by the formula W = 0.72H.

a. Complete the table of values and graph W = 0.72H.

H	W



b. How much water would a 25-kg child contain?

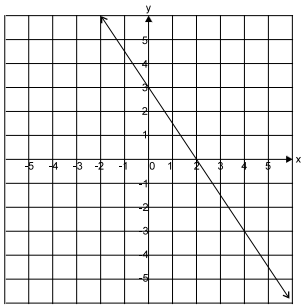
c. If a person contained 50 kg of water, what would their mass be?

ANSWER KEY

1. a. (2,0) b. (0,-1) c. 1/2 d. y = 1/2x -1

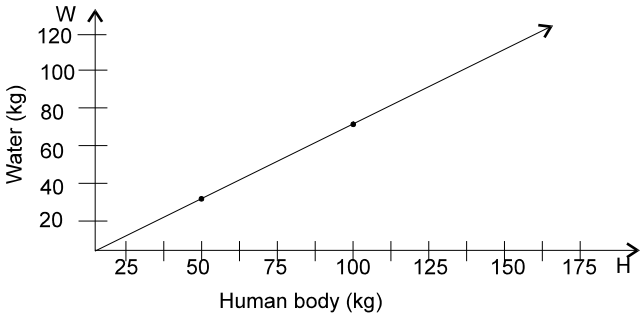
2. a. (2,0) b. (0,3) c. -1.5

d.



3. a.

E	M
0	0
50	36
100	72



b. 18 kg

c. 69 kg

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