

Graphing Linear Relationships

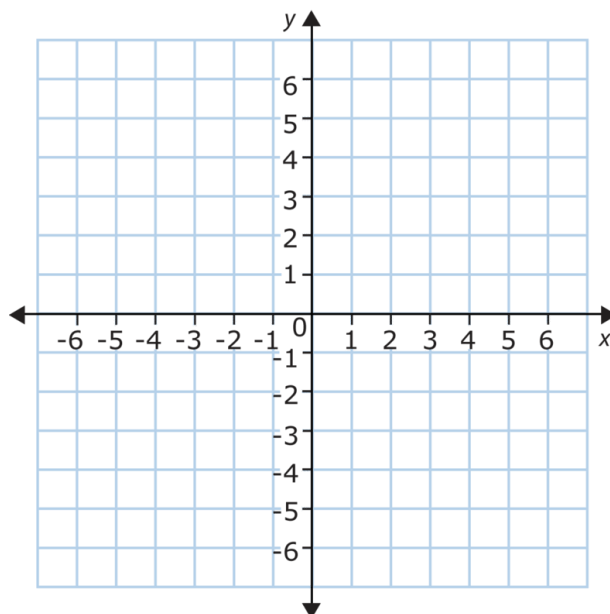
1. Graph each of the following linear equations on the given coordinate plane.

a. $2x + y = 0$

b. $y - 1 = 0$

c. $2x = y$

d. $y = x - 1$



2. Using the data points given below. Predict the equation of the line and plot it on a coordinate plane.

a.

x	y
1	-2
2	-4
3	-6

Equation:

b.

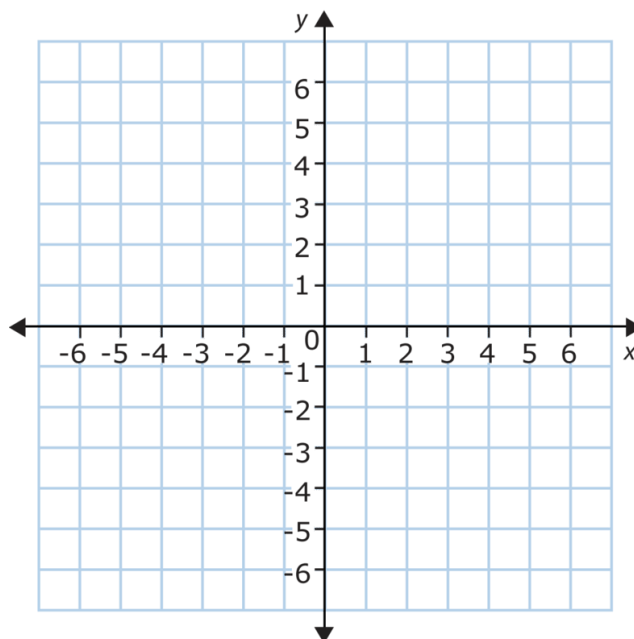
x	y
1	3
2	4
3	5

Equation:

c.

x	y
1	-1
2	-2
3	-3

Equation:



3. Which of the following lines passes through the origin?

a. $y = 3x + 1$

b. $y = 4x$

c. $y = 8x + 4$

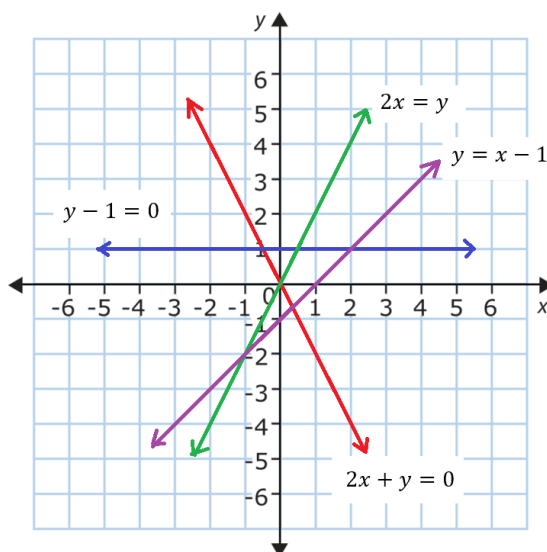
Solution:

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Answer Key

1. Graph each of the following linear equations on the given coordinate plane.

- $2x + y = 0$
- $y - 1 = 0$
- $2x = y$
- $y = x - 1$



2. Using the data points given below. Predict the equation of the line and plot it on a coordinate plane.

a.

x	y
1	-2
2	-4
3	-6

Equation:

$$y = -2x$$

b.

x	y
1	3
2	4
3	5

Equation:

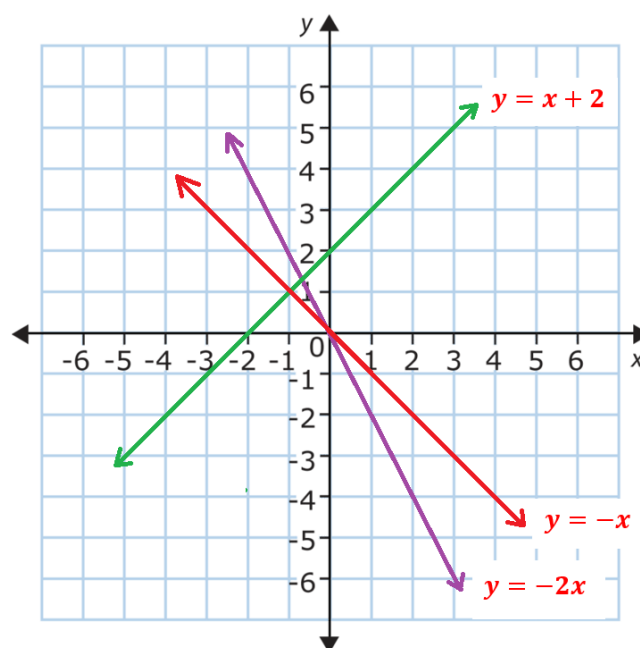
$$y = x + 2$$

c.

x	y
1	-1
2	-2
3	-3

Equation:

$$y = -x$$



3. Which of the following lines passes through the origin?

- $y = 3x + 1$
- $y = 4x$
- $y = 8x + 4$

Solution: b