

Name: _____ Period: _____ Date: _____

Standard Form Assignment

Find the x - and y - intercepts of the graph of each equation.

1. $x + y = 11$

2. $5x - 4y = 40$

3. $x - 2y = 6$

4. $8x + 2y = -16$

For each equation, tell whether its graph is a horizontal or vertical line. Give reason for your answer.

1. $y = 2$

2. $x = -2.5$

3. $x = 0$

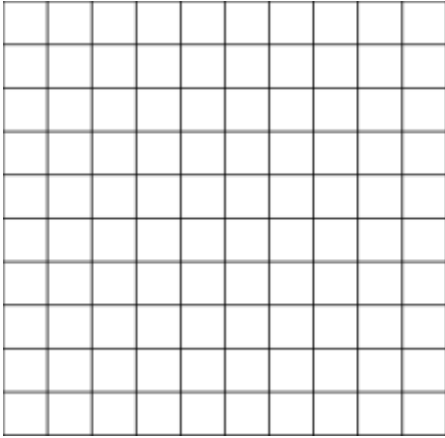
4. $y = 0$

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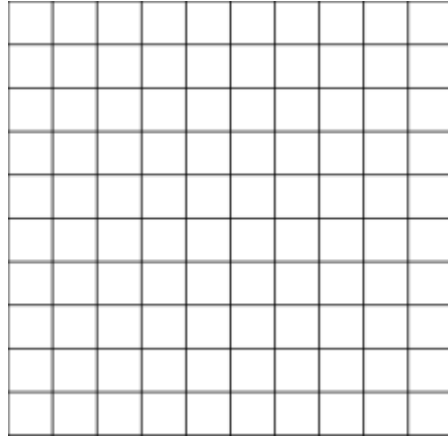
Standard Form Assignment

Graph each equation using x - and y -intercepts.

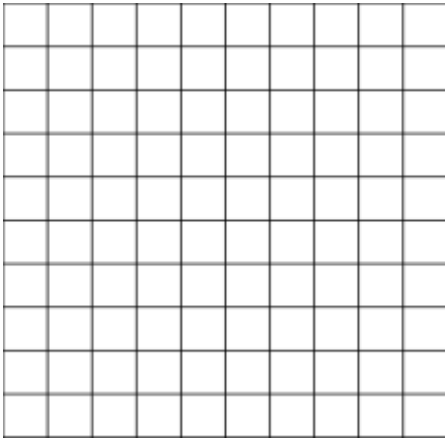
1. $3x + y = -3$



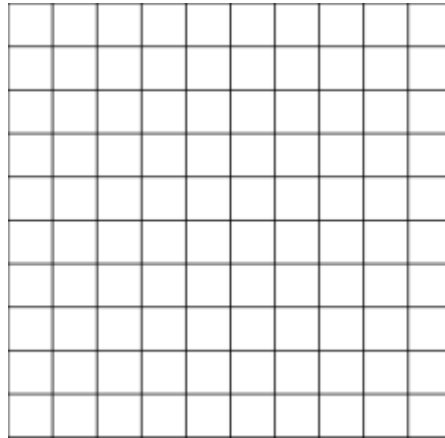
2. $x - 2y = 1$



3. $4x - 8y = 12$



4. $3x - y = 3$



Standard Form Assignment

Find the x - and y - intercepts of the graph of each equation.

1. $x + y = 11$

For x -intercept, put $y = 0$

$$x + 0 = 11 \rightarrow x = 11$$

For y -intercept, put $x = 0$

$$0 + y = 11 \rightarrow y = 11$$

2. $5x - 4y = 40$

For x -intercept, put $y = 0$

$$5x - 4(0) = 40 \rightarrow x = \frac{40}{5} = 8$$

For y -intercept, put $x = 0$

$$5(0) - 4(y) = 40 \rightarrow y = -\frac{40}{4} = -10$$

3. $x - 2y = 6$

For x -intercept, put $y = 0$

$$x - 2(0) = 6 \rightarrow x = 6$$

For y -intercept, put $x = 0$

$$x - 2y = 6 \rightarrow y = -3$$

4. $8x + 2y = -16$

For x -intercept, put $y = 0$

$$8x + 2(0) = -16 \rightarrow x = -\frac{16}{8} = -2$$

For y -intercept, put $x = 0$

$$8(0) + 2(y) = -16 \rightarrow y = -\frac{16}{2} = -8$$

For each equation, tell whether its graph is a horizontal or vertical line. Give reason for your answer.

1. $y = 2$

The equation has no x -intercept.

So, the equation represents a horizontal line.

2. $x = -2.5$

The equation has no y -intercept.

So, the equation represents a vertical line.

3. $x = 0$

The equation has no y -intercept.

So, the equation represents a vertical line.

4. $y = 0$

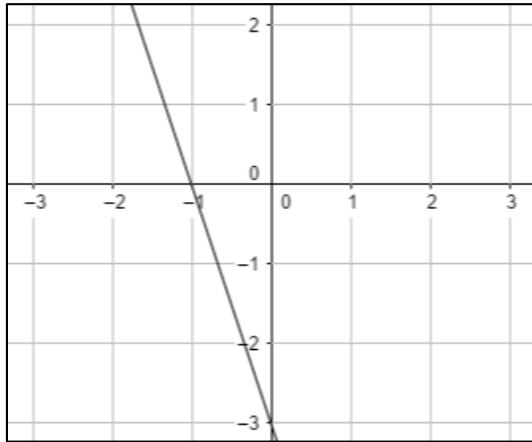
The equation has no x -intercept.

So, the equation represents a horizontal line.

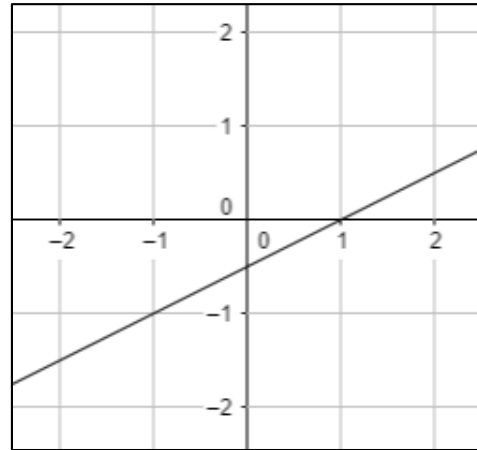
Standard Form Assignment

Graph each equation using x - and y -intercepts.

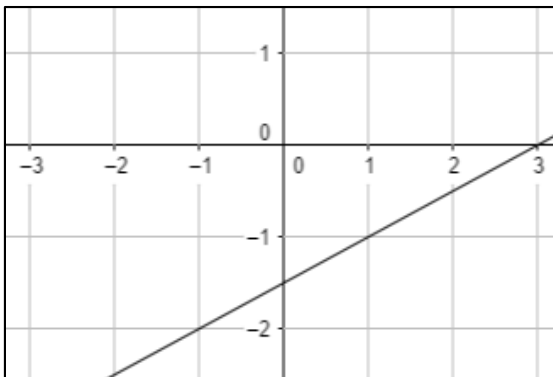
1. $3x + y = -3$



2. $x - 2y = 1$



3. $4x - 8y = 12$



4. $3x - y = 3$

