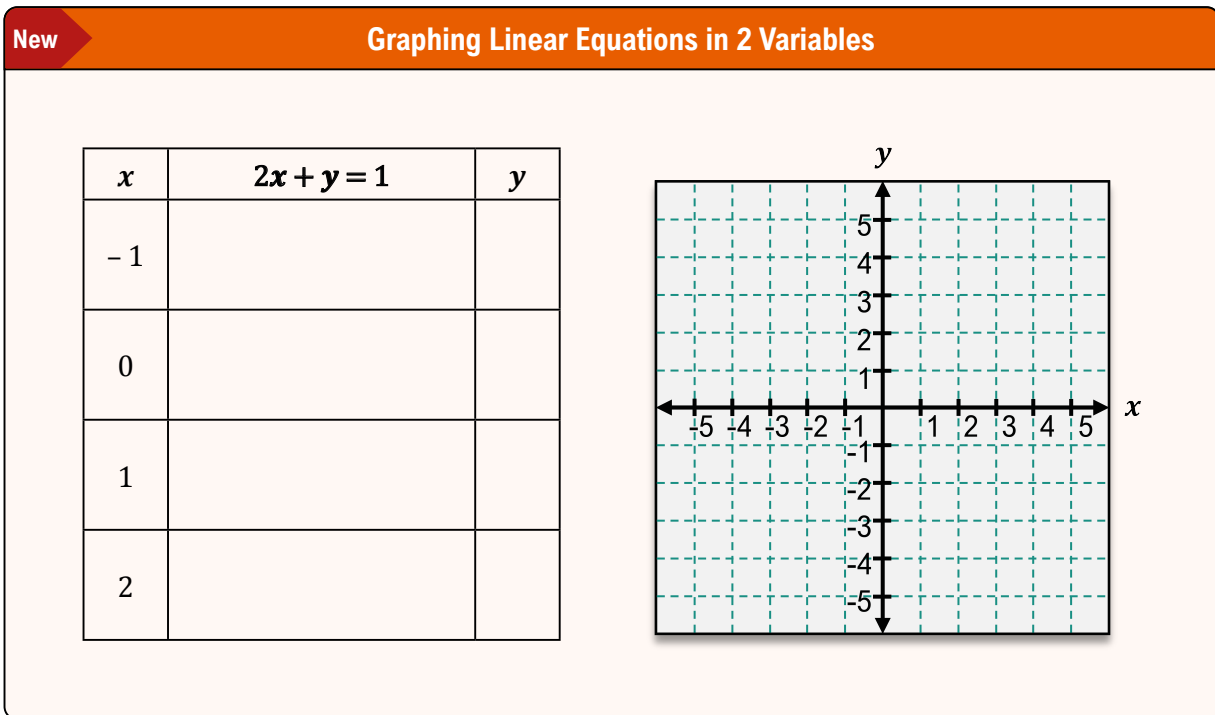


## TOPIC: GRAPH LINEAR EQUATIONS IN TWO VARIABLES

### Graphing Linear Equations in 2 Variables

◆ Plotting *all* ordered pair solutions of a 2-variable equation gives us the **graph of the equation**.

- To graph a 2-var. linear eqn  $Ax + By = C$  : **1)** Find ordered pair solns by plugging in \_\_\_-values to find \_\_\_-values  
**2)** Plot those ordered pairs and connect them with a \_\_\_\_\_.

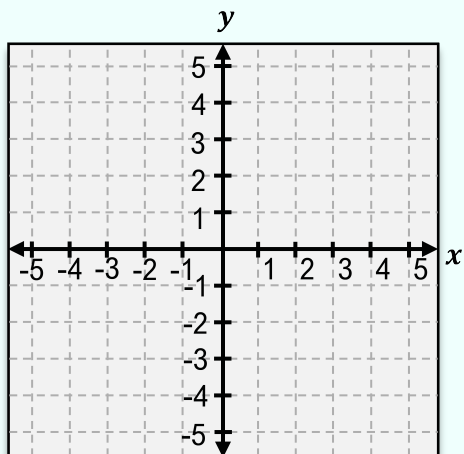


◆ Note: If  $x$ -values are \_\_\_\_\_ given, you will need to choose your own.

## TOPIC: GRAPH LINEAR EQUATIONS IN TWO VARIABLES

### EXAMPLE

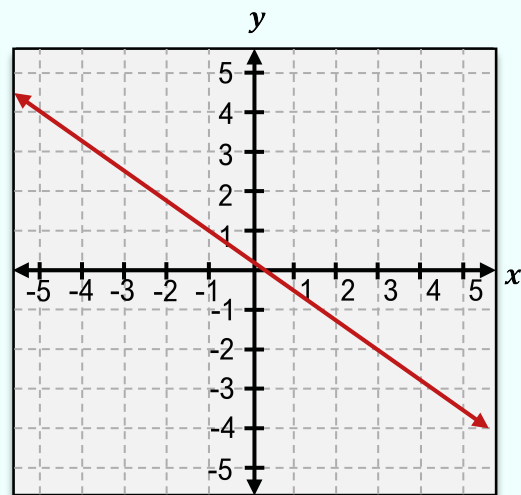
Graph the equation  $y = 4x - 3$  below by plotting points and connecting them on the given graph.



### EXAMPLE

Consider the graph of  $3x + 4y = 1$ , are the following ordered pairs solutions to the equation?

- (A)  $(0, 1)$
- (B)  $(-5, 4)$
- (C)  $(3, -2)$



**TOPIC: GRAPH LINEAR EQUATIONS IN TWO VARIABLES**

**PRACTICE**

Graph the given linear equation.

(A)  $3x - 2y = 4$

(B)  $-2x = y - 6$

(C)  $y = \frac{1}{2}x - 2$