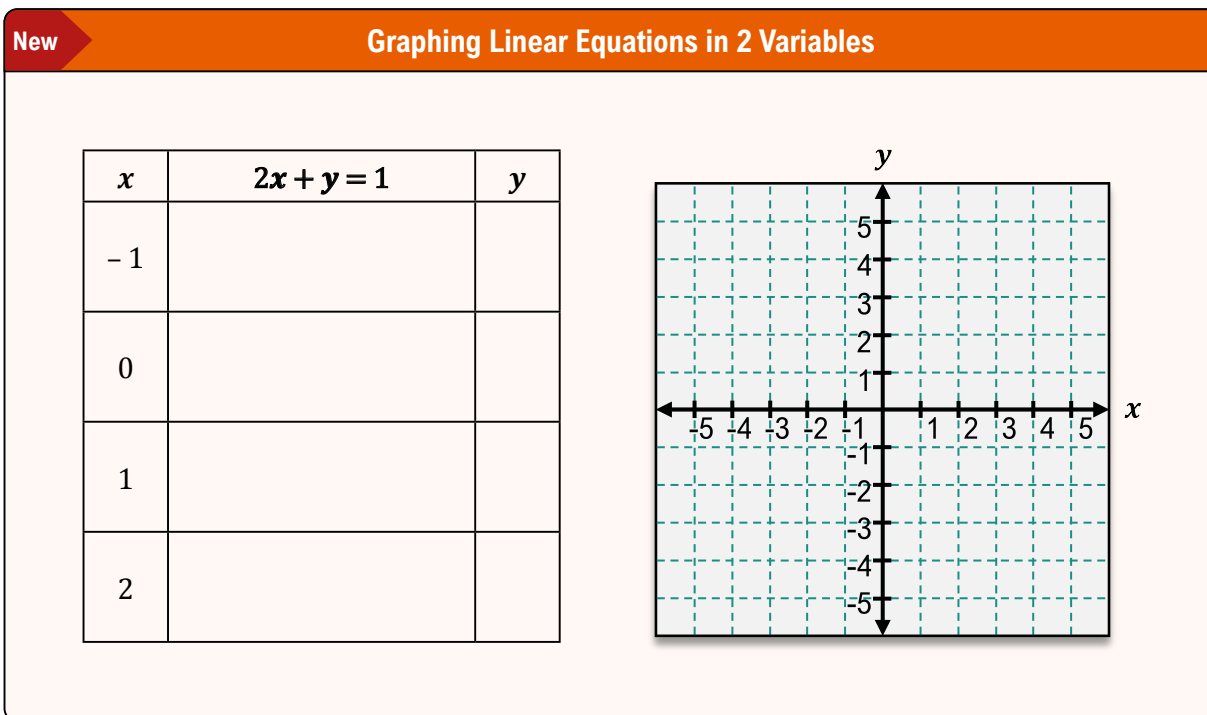


TOPIC: GRAPH LINEAR EQUATIONS IN TWO VARIABLES

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 _____.

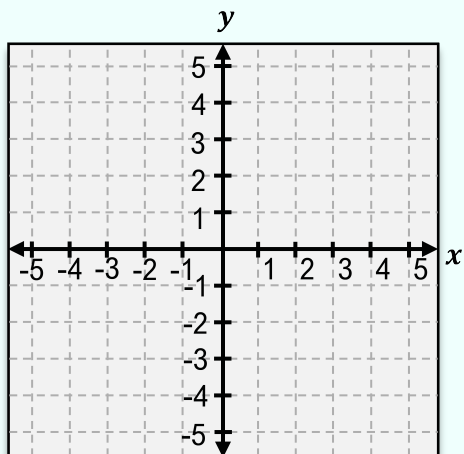


◆ Note: If x -values are _____ given, you will need to choose your own.

TOPIC: GRAPH LINEAR EQUATIONS IN TWO VARIABLES

EXAMPLE

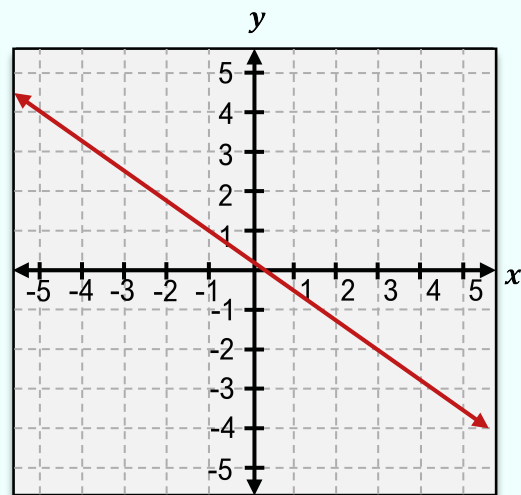
Graph the equation $y = 4x - 3$ below by plotting points and connecting them on the given graph.



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