



Graphing Linear Functions

GOAL Use a graphing calculator to graph linear functions.

Example Graph the equation $x - 2y = 6$.

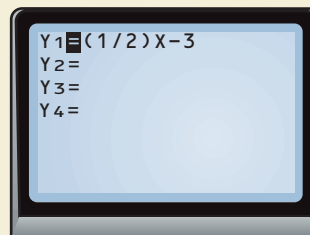
Solution

- 1 Rewrite the equation so that it is in function form: $y = \frac{1}{2}x - 3$.
- 2 Use the following keystrokes on a graphing calculator to enter the function:

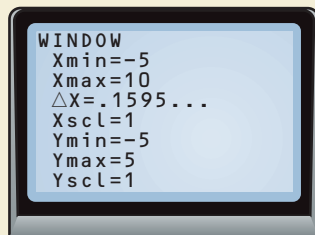
Keystrokes



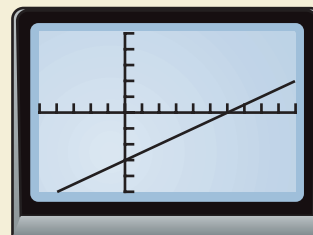
Display



Use the **WINDOW** feature to set the size of the graph.



View the graph by pressing the **GRAPH** button.



Your turn now Use a calculator to graph the equation.

1. $y = 2x - 5$ 2. $y = 5x + 10$ 3. $x - y = 11$ 4. $x + y = 6$

Tell whether the viewing window is appropriate for the graph of the equation. If not, give an appropriate window for it.

5. $y = 4x + 5$

Xmin=-5
Xmax=5
ΔX=.1063...
Ymin=-5
Ymax=5

6. $y = 2x + 14$

Xmin=-5
Xmax=5
ΔX=.1063...
Ymin=-5
Ymax=5