CALCULATOR

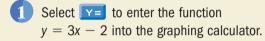
Graphing Functions

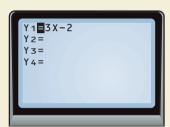
GOAL Graph functions using a graphing calculator.

Example

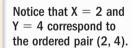
Graph y = 3x - 2 and find ordered pairs using the *trace* feature on your graphing calculator.

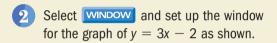
Solution

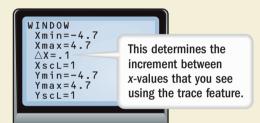


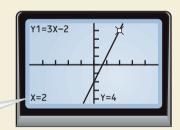


3 Select GRAPH to view the graph of the function. Then select TRACE to see the coordinates of points on the graph. Use the left and right arrows to move the cursor along the graph.









Your turn now Use a graphing calculator to graph the function and find the unknown value in the given ordered pairs.

1.
$$y = 2x$$
, ($\underline{?}$, 1.6) and (2.1, $\underline{?}$)

2.
$$y = -x$$
, $(-4.3, \underline{?})$ and $(\underline{?}, 0)$

3.
$$y = -3x + 1$$
, (?, -2) and (-2, ?)

3.
$$y = -3x + 1$$
, $(?, -2)$ and $(-2, ?)$ **4.** $y = 5x - \frac{1}{2}$, $(4.5, ?)$ and $(?, 1.5)$

5.
$$y = -3x - 1$$
, (?, 0.8) and (0.2, ?) **6.** $y = 2x + 2.3$, (0, ?) and (?, 5.5)

6.
$$y = 2x + 2.3$$
, $(0, ?)$ and $(?, 5.5)$

7. Critical Thinking Use a graphing calculator to graph
$$y = 2x + 5$$
 and $y = -x + 2$ in the same coordinate plane. Tell where they intersect. Check your answer by substituting the values into each equation.