## Exercise 48

For the following exercises, graph the given functions by hand.

$$f(x) = |2x - 4| - 3$$

## Solution

Rewrite the function to graph it more easily.

$$f(x) = |2(x-2)| - 3$$
$$= 2|x-2| - 3$$

This way it's apparent the graph is shifted to the right by 2 units, shifted down by 3 units, and has a rise-over-run of 2.

