

Exercise 68

For the following exercises, graph the absolute value function.

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

Solution

Rewrite the function first.

$$\begin{aligned} f(x) &= |2(x - 2)| \\ &= 2|x - 2| \end{aligned}$$

Notice that this graph of the absolute value function has been shifted to the right by 2 units and vertically stretched by a factor of 2.

