Exercise 29

For the following exercises, use the graph of the piecewise function shown in Figure 2.
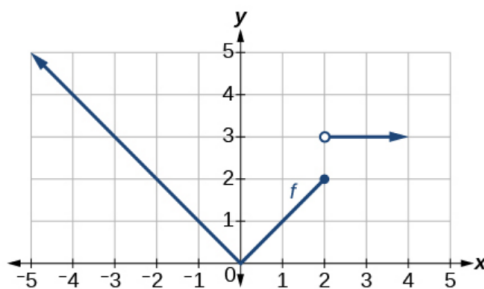

Figure 2

Write an equation for the piecewise function.

Solution

The graph appears to be an absolute value function for $x \leq 2$, and it appears to be constant for $x > 2$. Therefore,

$$f(x) = \begin{cases} |x| & \text{if } x \leq 2 \\ 3 & \text{if } x > 2 \end{cases}.$$