

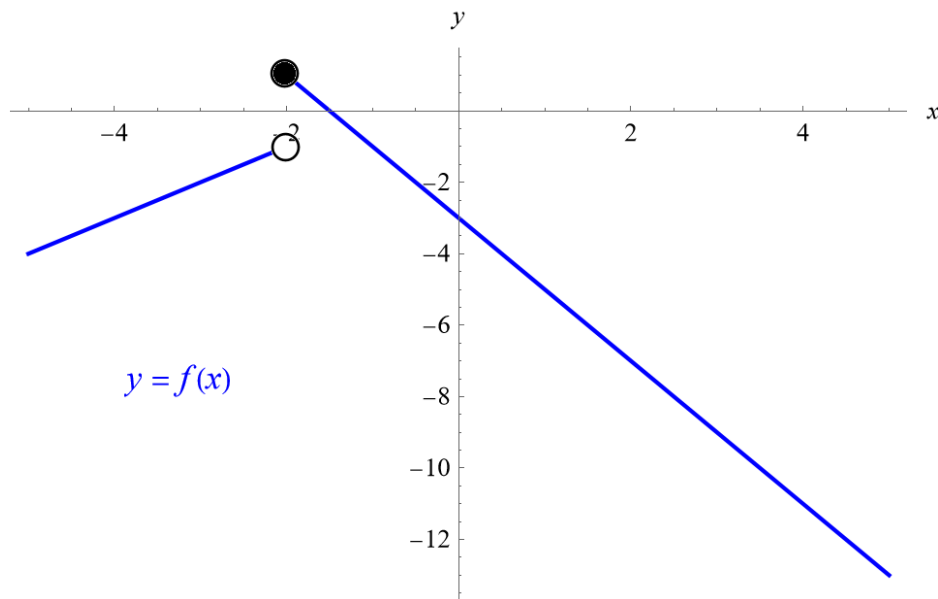
## Exercise 38

For the following exercises, sketch a graph of the piecewise function. Write the domain in interval notation.

$$f(x) = \begin{cases} x + 1 & \text{if } x < -2 \\ -2x - 3 & \text{if } x \geq -2 \end{cases}$$

### Solution

Below is a plot of  $f(x)$  versus  $x$ .



The domain is  $(-\infty, \infty)$ .