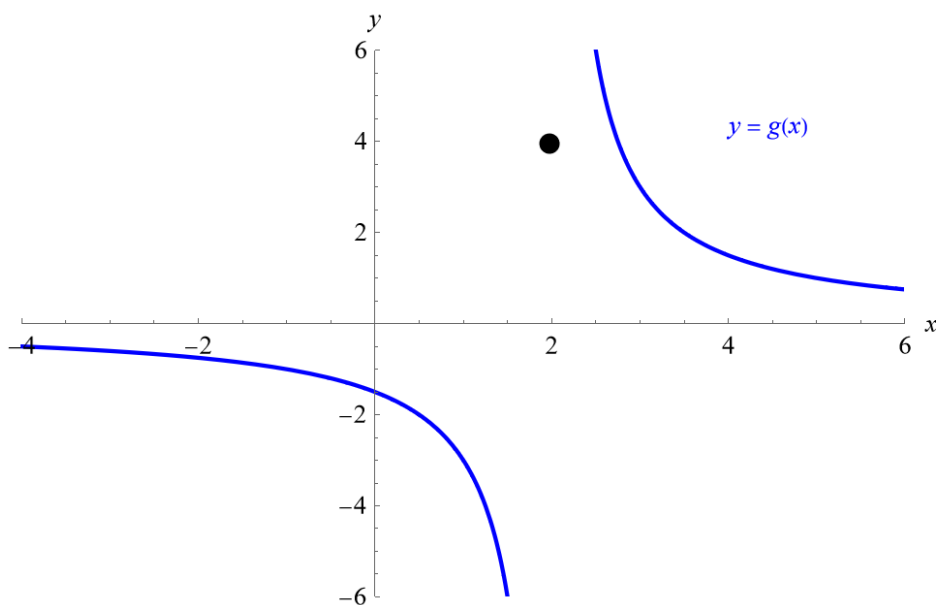


Exercise 97

For the following exercises, for each of the piecewise-defined functions, a. evaluate at the given values of the independent variable and b. sketch the graph.

$$g(x) = \begin{cases} \frac{3}{x-2}, & x \neq 2 \\ 4, & x = 2 \end{cases}; g(0); g(-4); g(2)$$

Solution



$$g(0) = \frac{3}{(0) - 2} = \frac{3}{0 - 2} = -\frac{3}{2}$$

$$g(-4) = \frac{3}{(-4) - 2} = \frac{3}{-4 - 2} = \frac{3}{-6} = -\frac{1}{2}$$

$$g(2) = 4$$