

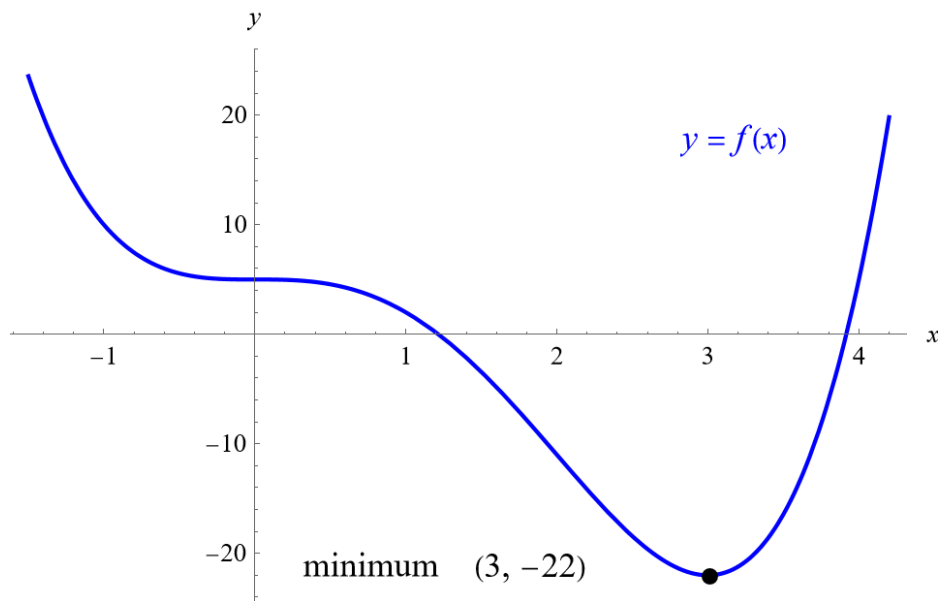
Exercise 35

For the following exercises, use a graphing utility to estimate the local extrema of each function and to estimate the intervals on which the function is increasing and decreasing.

$$f(x) = x^4 - 4x^3 + 5$$

Solution

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



The function is decreasing on $(-\infty, 3)$, and the function is increasing on $(3, \infty)$.