

Relative maxima and minima

4.3.1

Find all critical points of the function and determine algebraically with the first-derivative test which critical points give relative maxima or relative minima.

$$(a) f(x) = (x - 1)^5 \quad (b) f(x) = \frac{x^2 + 1}{x - 1} \quad (c) f(x) = \sqrt[3]{x + 2}$$