

SECTION 4.3: MAXIMUMS AND MINIMUMS

- local and absolute maximums and minimums: what they are and how to find them
- critical points
- closed-interval method

1. local and absolute maximums and minimums: what they are

2. A variety of examples

3. A critical point of $f(x)$ is

4. For each function below find (a) its domain, (b) any critical points, (c) use technology and the information from (b) to identify the local and/or absolute maxima and minima.

(a) $f(x) = (x - 2)^{2/3} + 1$

(b) $f(x) = x^2(x - 2)^3$