

MATH 201
Absolute extrema

Problem 1 Find the absolute extrema of the following function on the interval $[-3, 2]$.

$$g(x) = x^4 - 4x^2$$

Problem 2 Find the absolute extrema of the following function on the interval $[-1, 3]$.

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

Problem 3 Find the absolute extrema of the following function on the interval $(-\infty, \infty)$.

$$h(x) = x^3 - 2x^2 + 1$$

Problem 4 Find the absolute extrema of the following function on the given intervals.

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

1. $[-1, 2]$

2. $(1, 3]$

3. $(0, 2)$

4. $[1, 4]$