

University of Bahrain
Department of Mathematics
MATHS101: Calculus I
Dr. Abdulla Eid



Worksheet: Global Extrema

Students' Name: _____

1. Find the absolute maximum and absolute minimum values for the following function on the given intervals.

1. $f(x) = 3x^4 - 4x^3$ $[-2, 2]$

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2. $f(x) = x^{-2} \ln x$ $[0.5, 4]$

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3. $f(x) = \cos x$ $[-\frac{\pi}{2}, \frac{\pi}{4}]$