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MTH 111, Math. for the Architects, Quiz Eight Spring 2014

Ayman Badawi

QUESTION 1. Let $f(x) = -2x^3 + 3x^2 + 2$ defined on [0, 2]. Find the absolute minimum and the absolute maximum of f(x).

QUESTION 2. Let $f(x) = -3x^4 + 6x^2 + 5$. Find the critical values of $f(x)$. Find local min (max) points. Find the intervals where f(x) is increasing (decreasing). Use the xy-plane to sketch (First, find y-intercept, plot the min(max) points, then sketch as I told you in the class). Use back of this pages if needed

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