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

Ayman Badawi

QUESTION 1. Given the two points: A = (1,6) and B = (-4,3). Find a point C on y = 2 such that |AC| + |CB| is minimum.

QUESTION 2. Let $f(x) = -3x^4 + 24x^2 + 1$. Find the critical values of f(x). Use the second derivative test to check for local min. and max. values. Also use the second derivative test to find inflection points, the x-intervals where the curve of f(x) concave up and concave down.

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