

Math 261
Exam 1 Makeup Problem
Due: Monday 2/04/2008

Name: _____

1. (5 points) Use the Intermediate Value Theorem to prove that the function $f(x) = x^3 - 15x + 1$ has at least three zeros in the interval $[-4, 4]$. Make sure to clearly justify both why the IVT applies and how you can be sure that there are at least three zeros. Unsupported answers will receive little credit.

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