MONTGOMERY COUNTY COMMUNITY COLLEGE
MAT 161 Precalculus I
Worksheet #17

Section 3.2

Graziano

1. Determine left and right behavior of \( f(x) = -4x^3 + 3x^2 - 1 \).

2. Find all real zeroes of \( f(x) = x^3 - 3x^2 - 4x \).

3. Sketch the graph \( f(x) = x^2 - 4x^4 \).

4. Graph \( f(x) = x^4 + 2x^3 + 1 \) and estimate the \( x \) intercepts.

5. Use the Intermediate Value Theorem to estimate the real zero in the interval \([0,1]\) for \( f(x) = 2x^3 + 7x^2 - 1 \).