Group Work 3, Section 4.1
The Little Dip

Consider $f(x) = \frac{1}{5}x^5 + x^4 - 4x^3 + 3$.

1. Draw a graph of f. Estimate all critical points, local extrema, and absolute extrema.

2. Compute the actual values of all critical points, local extrema, and absolute extrema using Fermat's Theorem.