First Derivative Analysis

Analyze the function $f(x) = -2x^3 + 6x^2 - 3$ using the 1st derivative analysis.

- a) *f* is increasing on:
- b) *f* is decreasing on:
- c) *f* has a local max at:
- d) *f* has a local min at:
- e) Sketch the graph of *f*.