QUIZ 7

- Show all your work and indicate your final answer clearly. You will be graded not merely on the final answer, but also on the work leading up to it.
- 1. (3 points) Find the absolute minimum and maximum values of $f(x) = 2x^3 + 3x^2 12x 5$ on [-3, 3].

2. (3 points) Find the critical points of $f(x) = x^{2/3}(x-2)^2$.

- 3. (4 points) Let $f(x) = x^2 1$.
 - (a) Does f(x) satisfy the hypotheses of the Mean Value Theorem on the interval [-2, 2]?
 - (b) Find all numbers $c \in [-2, 2]$ such that $f'(c) = \frac{f(2) f(-2)}{4}$.