

November 12, 2025

Score _____

1. (3 points) Find the critical number(s) of $f(x) = 3x^4 + 4x^3 - 72x^2$.
2. (3 points) Find the critical number(s) of $g(x) = \frac{x}{x+3}$.
3. (4 points) Use calculus techniques to find the absolute extreme values of $f(x) = 3x^{2/3} - 2x$ on $[-1, 2]$.