Math 131 - Quiz 10

November 13, 2025

Name _______ Score _____

Show all work to receive credit. Supply explanations where necessary.

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].