

## November 13, 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  $[-1, 2]$ .