Math 131 - Quiz 9

Name _____

November 16, 2023

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (10 points) Let $f(x) = 3x^4 - 8x^3$. Use the first derivative test to determine open intervals on which f is increasing/decreasing and to classify the critical numbers of f. Then use the second derivative test to find open intervals on which the graph of f is concave up/down and to determine any inflection points.