Math 131 - Quiz 5

Name _

September 28, 2023

Score _____

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

1. (5 points) Let $f(x) = 3x^2 + 5x$. Use the limit definition of derivative (not our differentiation rules) to find f'(x).

- 2. (5 points) Let $f(x) = 3x^2 + 4\sqrt{x}$.
 - (a) Use our differentiation rules to determine f'(x).

(b) Find an equation of the line tangent to the graph of f at the point where x = 4.