

Math 131 - Quiz 5

September 23, 2026

Name _____

Score _____

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

1. (7 points) Let $f(x) = 5x^2 - 3x + 1$. Use the limit definition of the derivative to determine $f'(x)$.

2. (3 points) Use your result from above to find an equation of the line tangent to the graph of $f(x) = 5x^2 - 3x + 1$ at the point where $x = 3$.