

Math 108-03
Spring 2026
Dr. Lily Yen

Quiz Three no calculator

Show all your work

Name: _____
Number: _____
Signature: _____
Score: ____/10

Problem 1: Find the following derivatives.

a. Find the derivative of $h(t) = et^4 + \frac{1}{3}\sec(t) - 5\cot(t) + e^3$.

Score: /2

b. Find f' given $f(x) = \sin(x)(3x^2 - \frac{5}{x})$.

Score: /2

c. Find dg/dx given $g(x) = \frac{\cos(x) - x^3}{5\pi + \sqrt[3]{x}}$.

Score: /2

Problem 2: Use the limit definition of the derivative to find $f'(a)$ given $f(x) = \sqrt{x+3}$.

Score: /4