Math 108-03
Spring 2026
Dr. Lily Yen

Quiz 3 no calculator

Show all your work

Name: _____

Number: _____

Signature: _____

Score: ___/10

Problem 1: Find the following derivatives.

a. Find the derivative of $h(t) = et^3 + \frac{1}{2}\csc(t) - 5\tan(t) + e^2$.

Score: /2

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

Score: /2

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

Score: /2

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

Score: /4