

Name: _____

MATH 111-I

Spring 2025

Quiz 11

Problem 1: Find the average rate of change of $f(x) = 2x^2 + 4x - 5$ on $[-1, 1]$.

Problem 2: Write the following functions as $f(g(x))$ for some functions $f(x), g(x)$.

(a) $\ln(16 - x^2)$

(b) $8\sqrt{4x + 5}$

(c) $\frac{1}{x^2 + x + 5}$