

Name: _____

MATH 111-I

Spring 2025

Quiz 8

Problem 1: If $f(x) = 5x + 8$ and $g(x) = x^2 - 4$, compute $(f \circ g)(-1)$.

Problem 2: Consider the function $h(x) = 4(x + 5)^3$. Find functions $f(x)$ and $g(x)$ such that $h(x) = f(g(x))$, i.e. write $h(x)$ as a composition of two functions.

Problem 3: Compared to the graph of $f(x)$, what does the graph of $4 - f(x + 6)$ 'look like'?

Problem 4: Does the function $f(x)$ given below have an inverse? Explain.

