

Name: _____

MATH 101

Fall 2022

HW 18: Due 11/14

“Poetry is a precise a thing as geometry.”

–Gustave Flaubert

Problem 1. (10pt) Solve the following equation and verify your solution:

$$4(x - 2) = 5 - 9x$$

Problem 2. (10pt) Solve the following equation and check your solution:

$$\frac{x-3}{1-x} = 5$$

Problem 3. (10pt) If $f(x) = 5 - 3x$ and $g(x) = -3(x + 8)$, will there be a solution to $f(x) = g(x)$? Explain.