Name: _____

MATH 100

Fall 2022

HW 7: Due 10/12

Problem 1. (10pt) Define what it means to be a linear function. Then give an example of a linear function and evaluate it at some value.

Problem 2. (10pt) Consider the function $f(x) = 121.5 - 11.6x$.

(a) Explain why $f(x)$ is linear.

(b) Find the slope and y-intercept of $f(x)$.

(c) Find $f(x)$ when $x = 7.2$

Problem 3. (10pt) Find the equation of the linear function which passes through the points $(-4, 10)$ and $(6, -8)$.

Problem 4. (10pt) Find the equation of the linear function with slope -15 and y-intercept 19.