Name:	
MATH 100	"He knows nothing, and he thinks he
Fall 2022	knows everything. That clearly points to
HW 7: Due 10/12	a political career." – George Bernard Shaw

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.