Quiz 1

Kay

Show all your work. Reasonable supporting work must be shown to earn credit. There are *two* sides to this quiz.

- 1. (WebHW2 #21) A person currently has \$140 in a Christmas savings account. The person deposits \$9 per week into this account.
 - (a) [3] Write a function that returns how much money is in an account at a certain time. Be sure to define any variables that you create!

let t be # & week since christmans] (1) let A be the amount of I in the account] (1) A = 140+9.4 (b) [1] Find what the y intercept means in terms of money and time. The y intercept would correspond to the too So the initial amount of A the person storts when (\$140)

- 2. Define G that takes numbers to the letter that it starts with when written in english. For example, G(2) = t since two begins with the letter t.
 - (a) [1] (2017 Autumn TMath120) Is the point (6, s) on the graph of G? Why or why not?

Yes. The #6 is written as six in English (3) 50 Call6)=5.

(b) [1] ($\S1.3 \#104$) Is G a function? Why or why not.

Yes, Each # is spelled unquely in English (3) So each # will give only loutpa.

- 3. Let g be the piecewise defined graph shown below.
 - - (c) [1] (FunctionsActivity #1) Find the domain.

[0, 100]

(d) [1] ($\S1.1 \# 66$) Find at least one *y*-intercept of the graph.

((0,0) Really can only be one if this is a function?