Quiz 1

Show *all* your work. No credit is given without reasonable supporting work. There are *two* sides to this quiz.

1. [3] (WebHW1 #13) Let $f(x) = \dfrac{5}{x}$. Find $f(x+h) - f(h)$ and simplify.

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.

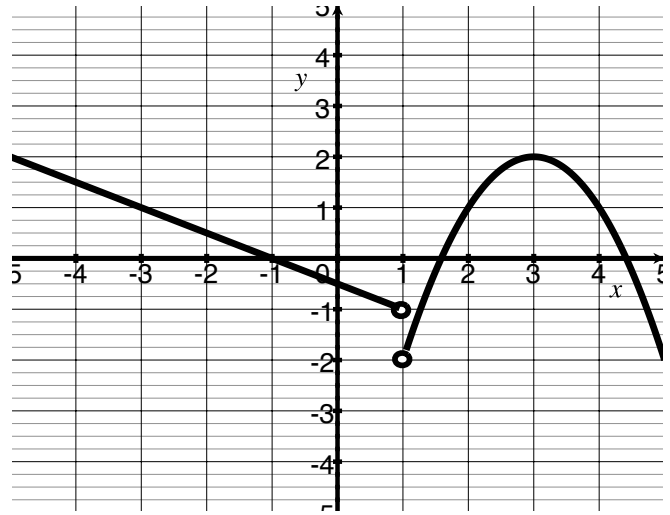   (a) [1] (§1.1 #30) Is the point $(6, s)$ on the graph of G? Why or why not?

   (b) [1] (Graph Wks #4) Is G a function? Why or why not.

3. Let g be the piecewise defined graph shown below.

(a) [1] (§1.3 #56) Find $g(3)$

(b) [2] (Graph Wks #4)
   Estimate x such that $g(x) = 1$.

(c) [1] (WebHW2 #7) Identify or estimate the x intercept(s).

(d) [1] (Graph Wks #4) What is the range of g?