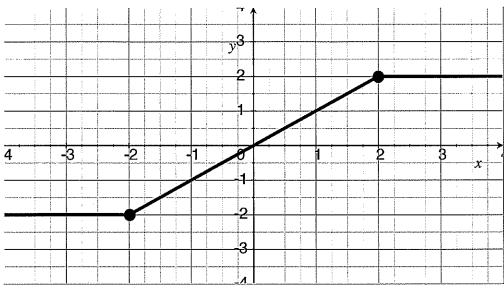
Quiz 1E

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

1. (§2.2 #53) The graph of the piecewise defined function f is shown below:



(a) [1] Find f(-3.5).

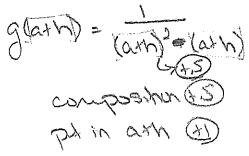
(b) [1] What is the domain of f? endow(5) bound(1.5)

[-4,4] fectorically ble I forget the encous but I'd

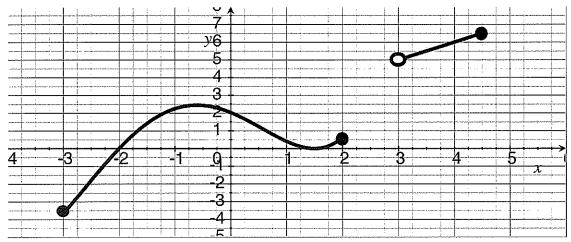
(c) [3] Find a formula for the function f in the indicated form:

 $f(x) = \begin{cases} -2 & \text{if } x < -2 \\ x & \text{if } -2 \le x \le 2 \\ 2 & \text{if } 2 < x \end{cases}$

2. (9/28 Worksheet) [2] Given that $g(\mathfrak{A}) = \frac{1}{\sqrt{3}^2 - \sqrt{3}}$, find g(a+h).



3. Use the the graph of C shown below to answer the following questions:



(a) (WebHW1 #6) [1] Estimate the number x in the domain of C so that C(x) is as large as possible.

(b) (WebHW1 #7)[2] What is the range of C?

