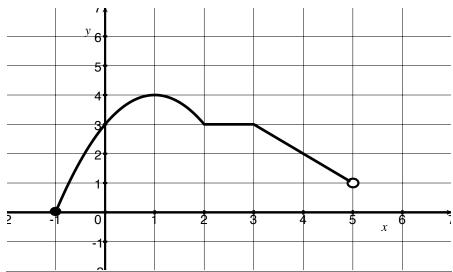
Quiz 1

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

1. [2] Define a function as you would to a 12 year old. Consider using examples to help clarify ideas.

- 2. Let $f(x) = x^2 \sqrt{9 4x}$.
 - (a) [1] (WebHW1 #5) Find f(3+h).
 - (b) [1] ($\S 1.1 \# 30$) Is the point $(-1, -\sqrt{13})$ on the graph of f? Why or why not?
 - (c) [2] (WebHW1 #9) Use the domain convention to find the domain of f?

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



- (a) [1] ($\S 1.3 \# 14$) Find g(4)
- (b) [1] Estimate x such that g(x) = 2.
- (c) [1] ($\S 1.1 \# 48$) Identify the x intercept(s).
- (d) [1] What is the range of g?