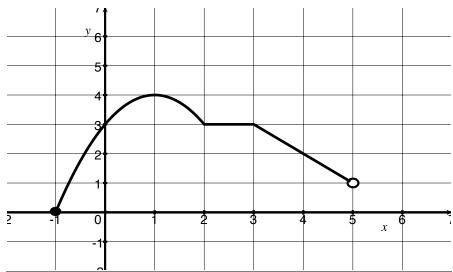
## Quiz 1

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?