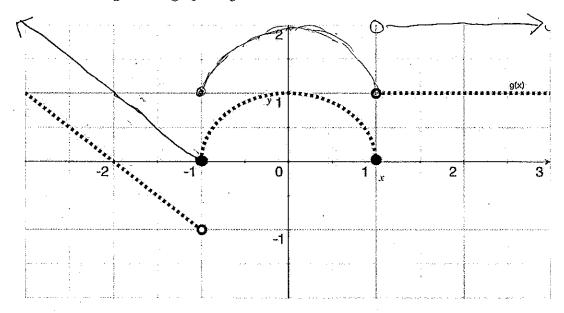
## Quiz 2

Show all your work algebraically for each and simplify. No credit is given without supporting work. There are two sides to this quiz.

1. Let the following be the graph of g.



(a) [2] Is g a function? Why or why not?

b/c the graph passes the vertical line test

(b) [1] What is g(2)?

(c) [2] What is the range of g?

[2] What is the range of g? sense () right (1)

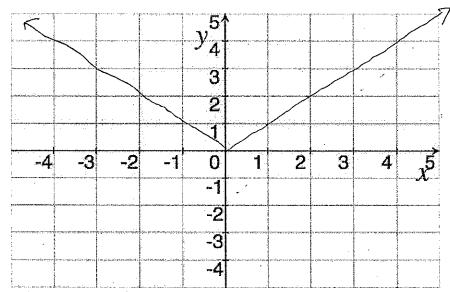
1) you assume on arow on the left dright a gaph.

(d) [1] If m(x) = g(x) + 1, graph m.

2. Given that the function f is defined by:

$$f(x) = \begin{cases} x & 0 \le x \\ -x & x \le 0 \end{cases}$$

(a) [2] Graph f on the axes below.



(b) [2] Let h(x) = x + 2. Find  $(h \circ f)(-3)$ .

$$(h \circ f)(-3) = h(f(-3)) = h(-(-3))$$
  
=  $h(3)$   
=  $3+2 = 5$  fight (1)