Key
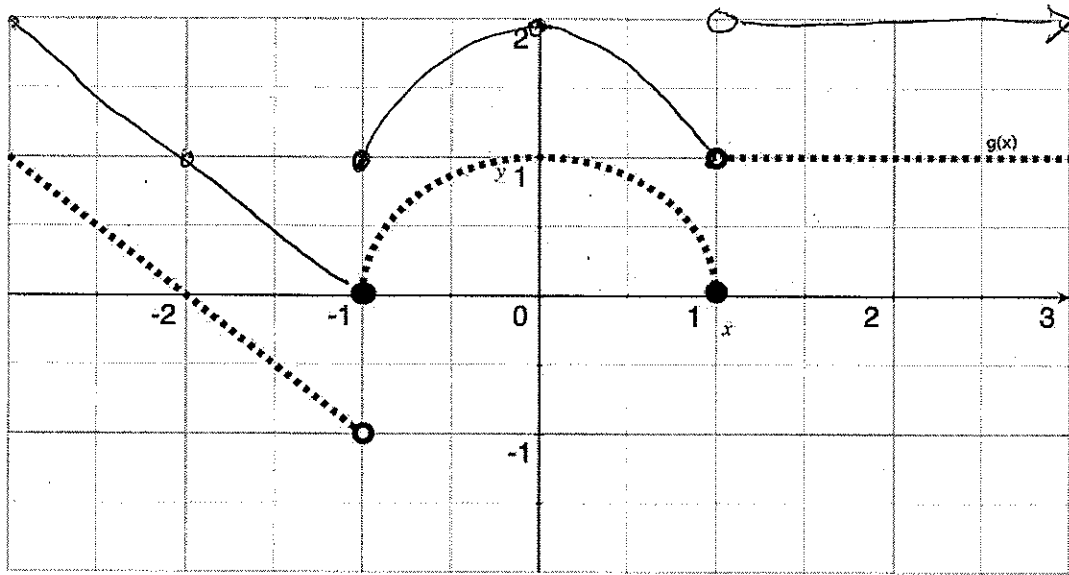
Quiz 2

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 piece-wise defined graph be the graph of g.

(a) [2] (§1.3) Is g an even function? Why or why not?

nope : g is not sym. with respect to the y-axis
(+.5)
-or-
$g(2) \neq g(-2)$ etc

sense (+.5)
reason (+1)

even function +1
started +.5

(b) [1] (§1.1 #2) What is $g(0)$?

1 (+1)

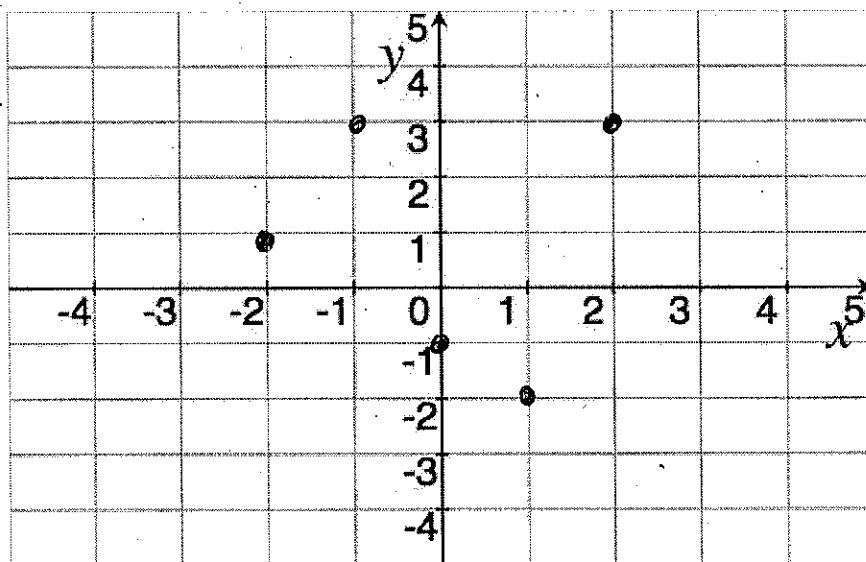(c) [2] (§1.1 #6) What is the range of g?

$(-1,1]$ or $(-1,\infty)$
(+.5) (.5)

depending on how you read the graph.

(d) [1] (§1.3 #1) If $m(x) = g(x) + 1$, graph m.

1

2. (§1.2 #11) Let f be a function whose domain is the set of five numbers $\{-2, -1, 0, 1, 2\}$ and whose values are defined by the following table:

x	$f(x)$
-2	1
-1	3
0	-1
1	-2
2	3

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

points (+1)
get + (+1)

(b) [2] (§1.1 #34 & §1.4 # 11) Let $h(x) = x + 2$. Find $(h \circ f)(0)$.

$(h \circ f)(0) = h(f(0)) = h(-1)$ (+1)

$= -1 + 2 = 1$ (+1)