

Quiz 2

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

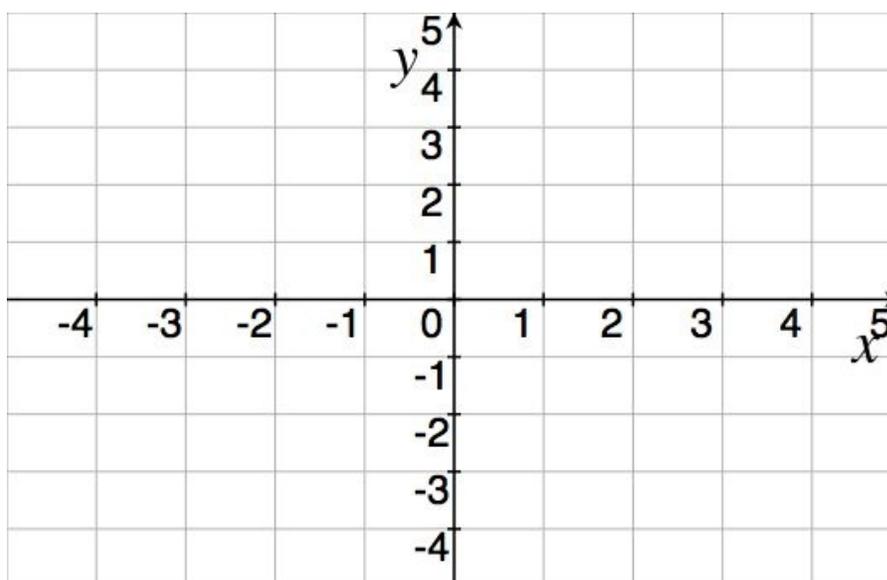
1. Assume that g and h are the functions *completely* defined by the tables below:

x	$g(x)$	x	$h(x)$
-3	-1	-4	2
-1	1	-2	-3
1	2.5	2	-1.5
3	-2	3	1

- (a) [1] (§1.2 #13) What is the domain of g ?

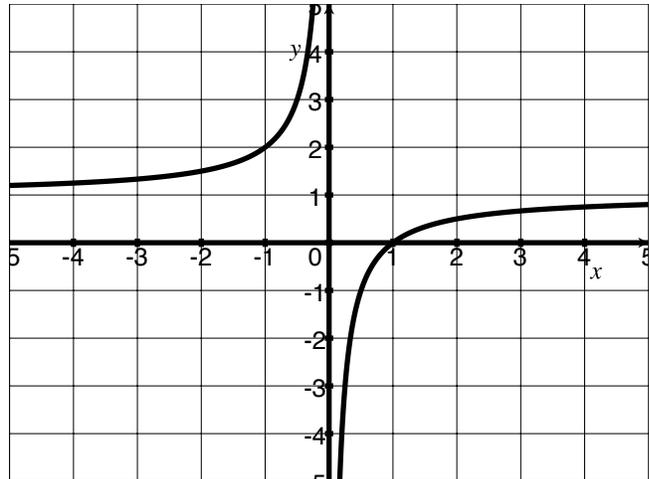
- (b) [1] (§1.4 #3) Find the value of $(h \circ g)(3)$.

- (c) [2] (§1.2 #11) Sketch the graph of the function h .



2. Suppose $f(x) = \frac{x-1}{x}$.

The graph of f is provided on the right.



(a) [1] (WebHW2 #4) Find $(f \circ f)(3)$.

(b) [1] (Inverse Wks #2a) Does f have an inverse? Why or why not?

(c) [2] (§1.3) Let $n(x) = f(x-1)$. Write down the rule of n and simplify.

(d) [2] (WebHW2 #13) Carefully draw the graph of n on the axes above.