Quiz 2

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

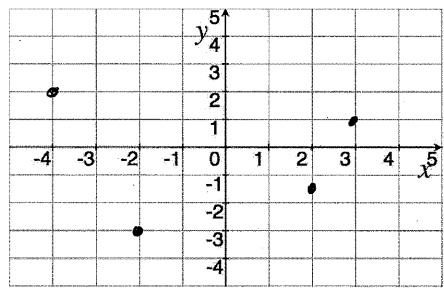
1. Assume that g and h are the functions completely defined by the tables below:

\boldsymbol{x}	g(x)	\boldsymbol{x}	$ \begin{array}{c c} h(x) \\ 2 \\ -3 \\ -1.5 \end{array} $
-3	g(x) -1 1 2.5	-4	· 2
-1	1	-2	-3
1	2.5	2	-1.5
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(a) [1] ($\S 1.2 \# 13$) What is the domain of g?

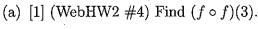
(b) [1] (§1.4 #3) Find the value of $(h \circ g)(3)$.

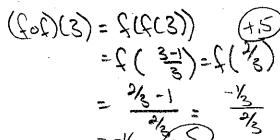
(c) [2] ($\S1.2 \#11$) Sketch the graph of the function h.

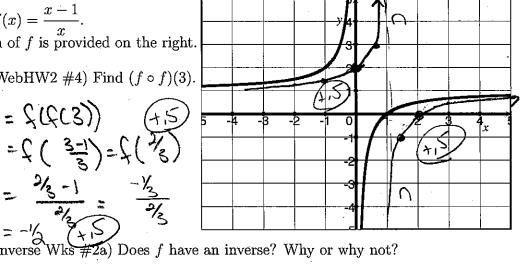


2. Suppose $f(x) = \frac{x-1}{x}$.

The graph of f is provided on the right.







yes be the graph of f passes the horiz live kel

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

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

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

shifted to the orghot I und. (+1) or n(0)=f(0-1)=f(-1)=2