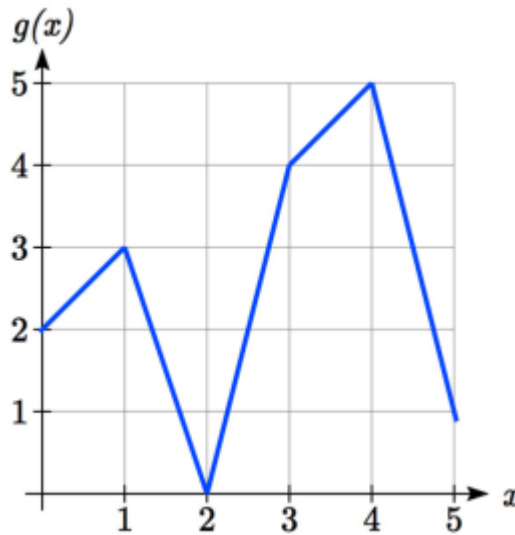


In Class Quiz Name _____

Sections 1.1 – 1.4 Answers without supporting work may not receive full credit.

Use the functions defined below to answer following questions:

x	$f(x)$
0	7
1	6
2	5
3	8
4	4
5	0
6	2
7	1
8	9
9	3



$$h(x) = \frac{1}{x + 2}$$

1. $(fg)(1)$
2. $(h - g)(2)$
3. Find $f(g(2))$
4. Find $f(g(h(-1)))$
5. Is $g(x)$ a one to one function? Explain.

6. The domain of $g(x)$ is $[0, 5]$. State the sub-domain when $g(x)$ is an increasing function and the sub-domain when $g(x)$ is a decreasing function. Use interval notation.

Find the Average rate of change for these next two questions:

7. $f(x) = 3x + 1$ on $[-2, 7]$

8. $f(x) = \frac{2}{x+2}$ on $[0, b]$

$$\text{Given } f(x) = \begin{cases} -3 & \text{on } x \leq -5 \\ 2x - 3 & \text{on } -5 < x \leq 2 \\ -x + 2 & \text{on } x > 2 \end{cases}$$

9. Evaluate $f(-3)$

10. Evaluate $f(-6)$

11. Evaluate $f(3)$

12. Graph $f(x)$ on the plane on the next page.