

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 5a: Math IBSL - Standard 5 - Composition of Functions

5 points

1 Given the functions

$$f(x) = \{(2, 1), (3, 2), (5, 6), (10, -4)\}$$

$$g(x) = \{(-2, 3), (3, 11), (6, -3), (11, 0)\}$$

a find:

i $f(g(-2))$ **ii** $g(f(5))$

iii $g(g(3))$

2 Using the table of values below, find:

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

a $(f \circ g)(3)$ **b** $(g \circ f)(-1)$ **c** $(f \circ f)(9)$

3 Using the graph below, find:

a $g(f(0))$ **b** $g(f(1))$

c $f(g(-2))$ **d** $f(g(0))$

