Compositions Using a Table or Graph

Use the following table to determine:

a) $f(-1)$ b) $f(f(3))$ c) $g(g(0))$ d) $f(g(3))$

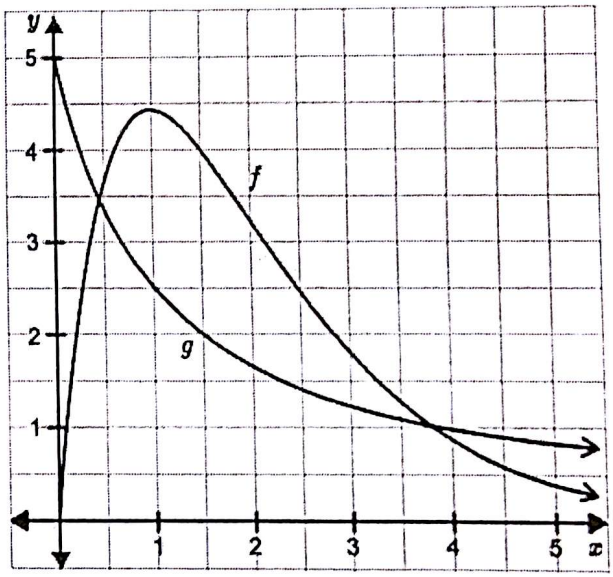
e) $g(f(-1))$ f) $g(f(1))$

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

g) find x if $f(g(x)) = 6$

h) find x if $g(g(x)) = 2$

Using the given graphs, find the following.



a) $f(g(1))$

b) $g(f(1.5))$

c) $g(g(3))$

d) $f(f(0.5))$

e) $f(g(0))$

As x increases from 0 to 5, how does $g(x)$ change?

As x increases from 0 to 5, how does $f(g(x))$ change?

As x increases from 0 to 5, how does $f(x)$ change?

As x increases from 0 to 5, how does $g(f(x))$ change?

Use the given table to evaluate:

a) $g^{-1}(3)$ b) $g^{-1}(0)$ c) $f^{-1}(-1)$

d) $g^{-1}(f^{-1}(6))$ e) $f^{-1}(g(2))$ f) $f(g(0))$

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

Summarize your understanding of inverse functions. Which cognitive verbs were utilized in evaluating these functions?