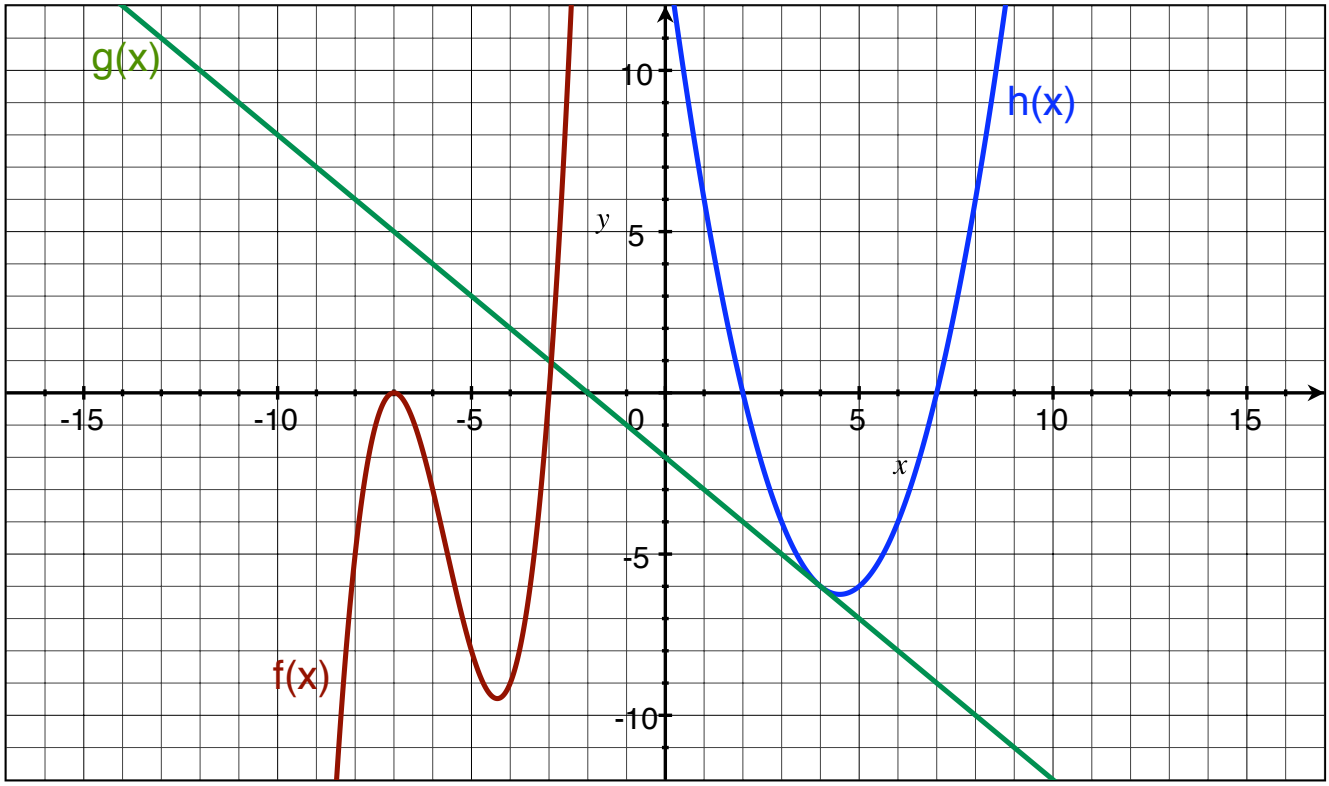
Name_____

Composite Functions

Part I: Use the graphs below to answer the questions that follow.



1) $g(2) =$

2) $h(2) =$

3) $h(5) =$

4) $f(h(5)) =$

5) $f(g(2)) =$

6) $g(h(2)) =$

7) $g \circ h(6) =$

8) $h(x) = -4$ when $x =$

9) For what value(s) of x does $f(x) = g(x)$?

10) For what value(s) of x does $g(x) = h(x)$?

11) Write three things you know about each of the functions in the graph above. Justify your answers.

Part II: Use the table below to answer the questions that follow.

x	$f(x)$	$g(x)$	$h(x)$	$j(x)$
-3	-25	undefined	15	-17
-2	-6	undefined	5	-12
-1	1	0	-1	-7
0	2	1	-3	-2
1	3	1.4142	-1	3
2	10	1.7321	5	8
3	29	2	15	13

12) $f(h(0)) =$

13) $g(f(1)) =$

14) $h \circ j(1) =$

15) $g(h(1)) =$

16) $g(j(0)) =$

17) $j(g(3)) =$

18) Identify the family of functions to which each function in the table above belongs. Justify your answers.