1	£	_	~1	10	
Ţ.	J	O	y_{j}	(x)	<i>–</i>

Domain issues: you must check the final functions AND the inside function for bad values (square roots & denominators)

1) Let $f(x) = 2x + 3$ and $g(x) = 4x$	x ² . Find the value of:	1.N	
$(f \circ g)(5)$	$(g \circ f)(5)$	f(f(5))	g(g(5))
(), 9/(9)	(9) /(-/		
	1		

		ion and the domain of the composition $(f \circ f)(x)$	g(g(x))	
f(g(x))	$(g \circ f)(x)$	() °))(×)	8/8/*//	

4) Let $f(x) = \frac{2}{x-1}$ and $g(x) = \frac{3}{x}$. Find the composition and the domain of the composition function.

- 1	x-1 X	
	$(f\circ g)(x)$	$(g\circ f)(x)$
	0 3/(/	
	$(g\circ g)(x)$	$(f\circ f)(x)$
	(9 - 9)(^)	3777
*		
i II		

$h(x) = (2x - 5)^3$	$h(x) = \sqrt{5x^2 + 3}$	$h(x) = \frac{1}{2x - 3}$	h(x) = 2 x+3 -4

$$g(x) = x - 1$$

5. $f(x) = x^2 - 9$

$$g(x) = \sqrt{9-x^2}$$

* the domain of flg(x1) is the domain of in the domain of g