P.O.C.A. WONG SIU CHING SECONDARY SCHOOL PURE MATHEMATICS CALCULUS : FUNCTIONS ASSIGNMENT 13

Date	Name	Grade / Score
		/15

- 1. Describe the graph of g in terms of f, with the aid of the software "*Graphmatica*".
 - (a) g(x) = f(x) + c for c > 0 and c < 0.
 - (b) g(x) = f(x+k) for k > 0 and k < 0.
 - (c) g(x) = -f(x).
 - (d) g(x) = f(-x).
 - (e) $g(x) = \lambda f(x)$ for $\lambda > 1$ and $0 < \lambda < 1$.
 - (f) $g(x) = f(\lambda x)$ for $\lambda > 1$ and $0 < \lambda < 1$.
 - (g) g(x) = |f(x)|.
 - (h) g(x) = f(|x|).

2. Complete the following tables with *Even*, *Odd*, *Both* or *Neither*. For the following, let f and g be functions defined on **R**.

(a)

f + g		even	odd	
6	even			
f	odd			

(b)

f• g		g	
		even	odd
f	even		
	odd		