

Name : \_\_\_\_\_

## Function Operations

ES1

A) 1) If  $f(x) = 4x + 7$  and  $g(x) = x^2 + 6$ ,  
find  $(f \cdot g)(x)$ .

2) If  $f(x) = 5x^2 - 13$  and  $g(x) = 8x^3 + 4$ ,  
find  $(f + g)(x)$ .

B) If  $f(x) = 9x^2 - 9x$  and  $g(x) = -3x$  ; find the following.

i)  $g(x) - f(x)$

ii)  $\frac{f(x)}{g(x)}$

C) 1) If  $f(x) = -5x^3$  and  $g(x) = x^3 + 1$ ,  
find  $(g \cdot f)(-2)$ .

2) If  $f(x) = 2x^2 - 3x + 1$  and  $g(x) = x^3 + 1$ ,

D) If  $f(x) = -6x - 12$  and  $g(x) = x^2 + 1$ ,  
find  $(f \cdot g)(-3)$ .

i)  $f(-3) + g(-3)$

E) 1) Which of the following represents  $(f \cdot g)(x)$ , if  $f(x) = -2x + 11$  and  $g(x) = 8$ ?

i)  $-2x + 88$

ii)  $-16x + 11$

iii)  $-16x + 88$

iv)  $x + 11$

2) Which of the following represents  $(g - f)(10)$ , if  $f(x) = 4x^2 - 1$  and  $g(x) = x - x^2$ ?

i)  $-489$

ii)  $-511$

iii)  $489$

iv)  $511$

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