

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

## Function Operations

Mul/Div: ES2

A) 1) If  $f(x) = 7x^2 + x$  and  $g(x) = -4x^3 - x$ ,  
find  $(f \cdot g)(x)$ .

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2) If  $f(x) = x + 2$  and  $g(x) = x^2 - x - 6$ ,  
find  $\frac{g(x)}{f(x)}$ .

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B) If  $f(x) = 15$  and  $g(x) = 3x - 12$  ; find the following.

i)  $\left(\frac{f}{g}\right)(x)$

ii)  $g(x) \cdot f(x)$

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C) 1) If  $f(x) = -8 - x^2$  and  $g(x) = -6x - 2$ ,  
find  $f(-4) \cdot g(-4)$ .

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D) If  $f(x) = x^2 - 13$  and  $g(x) = 2x - 1$ ,  
find  $\frac{f(3)}{g(3)}$

i)  $\frac{f(3)}{g(3)}$

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E) 1) Which of the following represents  $\frac{g(x)}{f(x)}$ , if  $f(x) = x + 5x$  and  $g(x) = 2x^2 + 10$ ?

i) 2

ii) 6

iii) 4

iv) 3

2) Which of the following represents  $(f \cdot g)(x)$ , if  $f(x) = -11$  and  $g(x) = 3 + x^2$ ?

i)  $33x^2 + 11$

ii)  $11x^2 - 3$

iii)  $-11x^2 - 33$

iv)  $-3x^2 + 11$

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