

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

## Function Operations

Sheet 3

1) If  $f(x) = -x^2 - \frac{1}{5}$  and  $g(x) = \frac{5}{7}x$  ; find the following.

i)  $(g \cdot f)(q^2)$

ii)  $f(-y) - g(-y)$

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2) If  $f(x) = 3x^2 + 12$  and  $g(x) = x^3 + 4x$  ; find the following.

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

ii)  $(f + g)(3t)$

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3) If  $f(x) = -4 - x^3$  and  $g(x) = x^2 + 3x - 1$  ; find the following.

i)  $(g - f)(u + 1)$

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4) If  $f(x) = -x^2 + 3x + 1$  and  $g(x) = x^2 - 2x + 5$  ; find the following.

i)  $g(6s + 5) + f(6s + 5)$

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5) Which of the following represents  $f(2a) \cdot g(2a)$ , if  $f(x) = -6 - x$  and  $g(x) = 9$ ?

i)  $18d - 54$

ii)  $-9d + 12$

iii)  $9d - 12$

iv)  $-18d - 54$

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

i)  $2n^2 - 1$

ii)  $n^2 + 2$

iii)  $n^2 - 2$

iv)  $2n^2 + 1$

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