

1) If  $f(x) = 6x^2 - 9x + 3$  and  $g(x) = x - 1$  ; find the following.

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

ii)  $(g + f)(4d)$

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2) If  $f(x) = x^3 + x^2 + 7$  and  $g(x) = -3x + 8$  ; find the following.

i)  $(f \cdot g)(m)$

ii)  $(g - f)(-2a)$

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3) If  $f(x) = 10 - 5x$  and

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

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4) If  $f(x) = -x^2 - 14$  and

i)  $f(-n) - g(-n)$

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5) Which of the following represents  $(j + g)(9v - 1)$ , if  $f(x) = \frac{2}{7} + x$  and  $g(x) = \frac{2}{7}$ ?

i)  $9v$

ii)  $-9v$

iii)  $-9v + 2$

iv)  $9v - 2$

6) Which of the following represents  $(g \cdot f)(-c)$ , if  $f(x) = 8 - 9x^2$  and  $g(x) = -x^3$ ?

i)  $8c^3 - 9c^4$

ii)  $9c^5 - 8c^3$

iii)  $-9c^5 + 8c^3$

iv)  $8c^3 + 9c^4$

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