Name : _____

Function Operations

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

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

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

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

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

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

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

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

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

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

5) Which of the following represents $(f + g)(9v - 1)$, if $f(x) = \frac{}{7} + x$ 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) $8c^3 + 9c^4$