Name : _____

Function Operations

1) If $f(x) = 7x + 14$ and $g(x) = 2x^2 + 4x$; find the following.

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

ii) $\dfrac{g(-p)}{f(-p)}$

2) If $f(x) = -11$ and $g(x) = x^2 - 13$; find the following.

i) $(f - g)(v^3)$

ii) $(g \cdot f)(m + 1)$

3) If $f(x) = 3x^2 + 2x - 5$

i) $\dfrac{f(t)}{g(t)}$

4) If $f(x) = -x^3 - \frac{4}{3}x$ an

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

5) Which of the following represents $\left(\frac{f}{g}\right)(y)$, if $f(x) = 4 + x$ and $g(x) = x^2 + 7x + 12$?

i) $y - 3$ ii) $y - 4$ iii) $y + 3$ iv) $y + 4$

6) Which of the following represents $(g - f)(3k)$, if $f(x) = -x^3 - x + 6$ and $g(x) = -x + 8$?

i) $9k^3 - 2$ ii) $27k^3 + 2$ iii) $27k^3 - 2$ iv) $9k^3 + 2$