

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

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

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

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) $\frac{f(t)}{g(t)}$

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

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

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5) Which of the following represents $(\overline{f})(y)$, 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) $9k^3 + 2$

Function Operations

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

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

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

$2r^2 - 11r + 14$

$-\frac{2}{7}p$

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

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

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

$-v^6 +$

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$2m + 132$

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

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

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$t - 1$

$+ 10b$

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

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

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$\frac{3}{2}w^4 +$

$+ \frac{2}{3}q$

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