

Name : _____

Function Operations

ES2

A) 1) If $f(x) = 6x^2 - 1$ and $g(x) = x^2 + 9x$,
find $(g - f)(x)$.

2) If $f(x) = x^2 - 2x - 8$ and $g(x) = x + 2$,
find $\left(\frac{f}{g}\right)(x)$.

B) If $f(x) = 10x^3 + x$ and $g(x) = 7 + 4x$; find the following.

i) $f(x) + g(x)$

ii) $(g \cdot f)(x)$

C) 1) If $f(x) = 3x^2 - 15$ and
find $f(4) - g(4)$.

and $g(x) = x - 6$,

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D) If $f(x) = 14$ and $g(x) = x$

i) $\frac{f(0)}{g(0)}$

E) 1) Which of the following represents $g(8) - f(8)$, if $f(x) = 5 - 4x$ and $g(x) = 9x$?

i) -179

ii) 323

iii) -323

iv) 179

2) Which of the following represents $(f + g)(x)$, if $f(x) = 7x^3 + 6x$ and $g(x) = -6x^3 - x$?

i) $x^3 - 5x$

ii) $x^3 - 7x$

iii) $x^3 + 7$

iv) $x^3 + 5x$

Function Operations

A) 1) If $f(x) = 6x^2 - 1$ and $g(x) = x^2 + 9x$,
find $(g - f)(x)$.

$$\underline{-5x^2 + 9x + 1}$$

2) If $f(x) = x^2 - 2x - 8$ and $g(x) = x + 2$,
find $\left(\frac{f}{g}\right)(x)$.

$$\underline{x - 4}$$

B) If $f(x) = 10x^3 + x$ and $g(x) = 7 + 4x$; find the following.

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$$\underline{10x^3 + 5x}$$

ii) $(g \cdot f)(x)$

$$\underline{+ 4x^2 + 7x}$$

C) 1) If $f(x) = 3x^2 - 15$ and
find $f(4) - g(4)$.

$$\underline{-63}$$

2) If $f(x) = 2x + 1$ and $g(x) = x - 6$,

$$\underline{\frac{4}{7}}$$

D) If $f(x) = 14$ and $g(x) = x$

i) $\frac{f(0)}{g(0)}$

$$\underline{\frac{14}{13} \text{ or } 1}$$

$$\underline{4}$$

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