

Name : _____

Function Operations

Add/Sub: MS2

A) 1) If $f(x) = -x + \frac{1}{3}$ and $g(x) = x^2 - \frac{4}{3}$,
find $(g + f)(x)$.

2) If $f(x) = 5x - \frac{9}{5}$ and $g(x) = \frac{1}{5} + 9x$,
find $f(x) - g(x)$.

B) If $f(x) = \frac{9}{2}x^3$ and $g(x) = \frac{3}{2}x^3 - 1$; find the following.

i) $f(x) - g(x)$

ii) $(g + f)(x)$

C) 1) If $f(x) = 3x + 12$ and
find $(g + f)\left(\frac{8}{3}\right)$.

and $g(x) = -11$,

D) If $f(x) = \frac{7}{4}x^3 + 13$ and
i) $f(-2) - g(-2)$

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E) 1) Which of the following represents $f(-1) - g(-1)$, if $f(x) = -8x + 3$ and $g(x) = x^3 - \frac{1}{2}$?

i) 12

ii) $\frac{25}{2}$

iii) -12

iv) $-\frac{25}{2}$

2) Which of the following represents $g(x) + f(x)$, if $f(x) = -\frac{7}{3}$ and $g(x) = 1 + 6x$?

i) $-6x + \frac{8}{3}$

ii) $6x + \frac{4}{3}$

iii) $6x - \frac{4}{3}$

iv) $6x - 2$

Function Operations

A) 1) If $f(x) = -x + \frac{1}{3}$ and $g(x) = x^2 - \frac{4}{3}$,
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$x^2 - x - 1$

2) If $f(x) = 5x - \frac{9}{5}$ and $g(x) = \frac{1}{5} + 9x$,
find $f(x) - g(x)$.

$-4x - 2$

B) If $f(x) = \frac{9}{2}x^3$ and $g(x) = \frac{3}{2}x^3 - 1$; find the following.

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$3x^3 + 1$

PREVIEW

$- 1$

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84

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$25\frac{1}{3}$

D) If $f(x) = \frac{7}{4}x^3 + 13$ and

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-44

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3

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