Name : _____

Function Operations

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

find $(g + f)(x)$.

_____

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

find $f(x) - g(x)$.

_____

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

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

_____

PREVIEW

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C) 1) If $f(x) = 3x + 12$ and _____ and $g(x) = -11$,

find $(g + f)\left(\dfrac{8}{3}\right)$.

_____

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

   i) $f(-2) - g(-2)$

_____

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

   i)   12   ii) $\dfrac{25}{2}$ iii) -12 iv) $-\dfrac{25}{2}$

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

   i) $-6x + \dfrac{8}{3}$ ii) $6x + \dfrac{4}{3}$ iii) $6x - \dfrac{4}{3}$ iv) $6x - 2$