Name : _____

Function Operations

A) 1) If $f(x) = \dfrac{1}{5} - 3x$ and $g(x) = 8x^2 - 4x - \dfrac{9}{5}$, find $(f - g)(x)$.

2) If $f(x) = \dfrac{2}{3}x + 11$ and $g(x) = 14 - \dfrac{8}{3}x$, find $f(x) + g(x)$.

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B) If $f(x) = \dfrac{5}{2}x^3 + 4x^2$ and $g(x) = \dfrac{9}{2}x^3 - 5x$; find the following.

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

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

PREVIEW

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C) 1) If $f(x) = x + 5x^2$ and ... nd $g(x) = -x^2 + 6x$, find $(f - g)\left(\dfrac{1}{4}\right)$.

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D) If $f(x) = \dfrac{7}{4}x$ and $g(x) =$

i) $g\left(-\dfrac{4}{3}\right) + f\left(-\dfrac{4}{3}\right)$

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E) 1) Which of the following represents $(f + g)(x)$, if $f(x) = -9x - \dfrac{}{7}$ and $g(x) = x^3 - 2x - \dfrac{6}{7}$?

i) $x^3 + 7x + 7$

ii) $x^3 - 7x - 7$

iii) $x^3 - 11x - 1$

iv) $x^3 + 11x + 1$

2) Which of the following represents $g(6) - f(6)$, if $f(x) = \dfrac{5}{3}x - 1$ and $g(x) = -8x$?

i) -39

ii) -57

iii) -44

iv) -50