

Name : _____

Function Operations

Add/Sub: MS3

A) 1) If $f(x) = -13$ and $g(x) = -\frac{2}{3}x + 1$,
find $(f - g)(x)$.

2) If $f(x) = \frac{3}{4} - 10x$ and $g(x) = -5x^2 + 3x + \frac{9}{4}$,
find $g(x) + f(x)$.

B) If $f(x) = \frac{3}{7} - 8x^2$ and $g(x) = 2x^3 + 7x^2$; find the following.

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

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

C) 1) If $f(x) = \frac{5}{6}x + 9$ and
find $(g - f)(6)$.

and $g(x) = x^3$,

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D) If $f(x) = -\frac{8}{3}x^2$ and $g(x)$
i) $f\left(-\frac{3}{8}\right) + g\left(-\frac{3}{8}\right)$

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

i) $x^3 + 6$

ii) $x^3 + 9$

iii) x^3

iv) $x^3 - 6$

2) Which of the following represents $(f - g)(10)$, if $f(x) = \frac{4}{5}x + 4$ and $g(x) = -5$?

i) 17

ii) 9

iii) 7

iv) 15