

Name : _____

MS1

Function Operations

A) 1) If $f(x) = 4x - \frac{2}{3}$ and $g(x) = x^2 - \frac{1}{6}x$,
find $\left(\frac{g}{f}\right)(x)$.

2) If $f(x) = \frac{3}{8}x^3 + 7x - 10$ and $g(x) = \frac{5}{8}x^3 - 9x$,
find $(f + g)(x)$.

B) If $f(x) = -\frac{6}{7}x$ and $g(x) = \frac{8}{7}x + 1$; find the following.

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

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

C) 1) If $f(x) = -x^3 + 11$ and
find $(g + f)\left(\frac{3}{2}\right)$.

$g(x) = \frac{4}{9} - 3x$,

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

i) $g(-3) - f(-3)$

E) 1) Which of the following represents $f(x) + g(x)$, if $f(x) = -\frac{1}{4} + x - 5x^2$ and $g(x) = \frac{5}{4}$?

i) $-5x^2 + x + \frac{1}{2}$

ii) $5x^2 + x + 2$

iii) $5x^2 + x - \frac{1}{2}$

iv) $-5x^2 + x + 2$

2) Which of the following represents $g(7) \cdot f(7)$, if $f(x) = x - \frac{9}{5}$ and $g(x) = 6x - 2$?

i) -208

ii) 220

iii) 208

iv) -220