

Name : \_\_\_\_\_

## Function Operations

Add/Sub: MS3

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

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

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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  $(g - f)(6)$ .

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

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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

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$$\frac{2}{3}x - 14$$

2) If  $f(x) = \frac{3}{4} - 10x$  and  $g(x) = -5x^2 + 3x + \frac{9}{4}$ ,  
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$$-5x^2 - 7x + 3$$

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)  $(f - g)(x)$

$$2x^3 - x^2 +$$

# PREVIEW

$$5x^2 + \frac{3}{7}$$

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

$$-24$$

$$\text{and } g(x) = x^3,$$

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$$\text{or } -5\frac{5}{8}$$

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

i)  $f\left(-\frac{3}{8}\right) + g\left(-\frac{3}{8}\right)$

$$-\frac{11}{8} \text{ or } -$$

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