

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

## Function Operations

Add/Sub: ES2

A) 1) If  $f(x) = 3x^2 - 8$  and  $g(x) = 6x^2 + 8$ ,  
find  $(f + g)(x)$ .

2) If  $f(x) = -x^3 + 2$  and  $g(x) = x^3 - 7$ ,  
find  $g(x) - f(x)$ .

B) If  $f(x) = 5x + 12$  and  $g(x) = -12$  ; find the following.

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

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

C) 1) If  $f(x) = -7x^2$  and  $g(x) = x^3 - 4x^2 + 3$ ,  
find  $g(5) - f(5)$ .

2) If  $f(x) = x^3 - 4x^2 + 3$ ,  
find  $g(x) = x^3 - 4x^2 + 3$ .

D) If  $f(x) = -8x + 5$  and  $g(x) = x^3 - 4x^2 + 3$ ,  
i)  $(g - f)(7)$

E) 1) Which of the following represents  $g(x) + f(x)$ , if  $f(x) = -1 + 6x$  and  $g(x) = -x^2 - x + 14$ ?

i)  $x^2 + 2x - 14$       ii)  $-x^2 - 5x + 13$       iii)  $x^2 + 7x + 15$       iv)  $-x^2 + 5x + 13$

2) Which of the following represents  $(f - g)(-9)$ , if  $f(x) = -x^2 + 3$  and  $g(x) = -10 - x$ ?

i)  $-77$       ii)  $-85$       iii)  $-59$       iv)  $-81$

# PREVIEW

Gain complete access to the largest  
collection of worksheets in all subjects!

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)