

Function Evaluation & Operations

For each problem on this page, use the following five functions: (Hint, simplify each first if necessary)

$$f(x) = 2x - 5$$

$$j(x) = -2(x + 5) + 9x$$

$$k(x) = 2x^2 - (5x^2 - 2x) + 6$$

$$g(x) = 3x^2 + 5x + 2$$

$$h(x) = x^2 - 2x - 9$$

$$j(x) = \underline{\hspace{2cm}}$$

$$k(x) = \underline{\hspace{2cm}}$$

I. Evaluate each function at the given value.

1) $f(2)$

2) $g(-2)$

3) $h(0)$

4) $k(7)$

5) $g(4) + j(0)$

6) $f(4) + g(2) - k(4)$

II. Perform the following operations using the same functions listed above.

7) $f(x) + h(x)$

8) $g(x) - h(x)$

9) $j(x) + k(x)$

10) $f(x) - j(x)$

11) $f(x) - j(x) + k(x)$

12) $j(x) + k(x) - j(x)$

For each problem on this page, use the following five functions: (Hint, simplify each first if necessary)

$$f(x) = 3x + 2$$

$$j(x) = -2(x + 5)$$

$$k(x) = 2x^2 + 4 - x^2$$

$$g(x) = 2x^2 + 3x - 1$$

$$h(x) = x^2 + 7$$

$$j(x) = \underline{\hspace{2cm}}$$

$$k(x) = \underline{\hspace{2cm}}$$

I. Evaluate each function at the given value.

13) $f(2)$

14) $g(-2)$

15) $h(0)$

16) $k(7)$

17) $g(4) + j(0)$

18) $f(4) + g(2) - k(4)$

II. Perform the following operations using the same functions listed above.

19) $f(x) + h(x)$

20) $g(x) - h(x)$

21) $j(x) + k(x)$

22) $f(x) - j(x)$

23) $f(x) - j(x) + k(x)$

24) $j(x) + k(x) - j(x)$
