

## Math Worksheets

### Adding and Subtracting Functions

 Perform the indicated operation.

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

$$g(x) = x + 7$$

Find  $(f - g)(2)$

2)  $g(a) = -5a - 8$

$$f(a) = -3a - 5$$

Find  $(g - f)(-2)$

3)  $h(t) = 4t + 3$

$$g(t) = 4t + 7$$

Find  $(h - g)(t)$

4)  $g(a) = -6a - 10$

$$f(a) = 3a^2 + 9$$

Find  $(g - f)(x)$

5)  $g(x) = \frac{5}{6}x - 23$

$$h(x) = \frac{5}{12}x + 25$$

Find  $g(12) - h(12)$

6)  $h(x) = \sqrt{3x} - 2$

$$g(x) = \sqrt{3x} + 5$$

Find  $(h + g)(12)$

7)  $f(x) = x^{-1}$

$$g(x) = x^2 + \frac{5}{x}$$

Find  $(f - g)(-3)$

8)  $h(n) = n^2 + 2$

$$g(n) = -4n + 6$$

Find  $(h - g)(2a)$

9)  $g(x) = -2x^2 - 5 - 4x$

$$f(x) = 7 + 2x$$

Find  $(g - f)(3x)$

10)  $g(t) = 11t - 4$

$$f(t) = -2t^2 + 5$$

Find  $(g + f)(-t)$

11)  $f(x) = 8x + 9$

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

Find  $(f - g)(-x^2)$

12)  $f(x) = -3x^4 - 5x$

$$g(x) = 2x^4 + 5x + 22$$

Find  $(f + g)(3x^2)$

## Answers of Worksheets

### Adding and Subtracting Functions

1)  $-2$

2)  $1$

3)  $-4$

4)  $-3x^2 - 6x - 19$

5)  $-43$

6)  $15$

7)  $-7\frac{2}{3}$

8)  $4a^2 + 8a - 4$

9)  $-18x^2 - 18x - 12$

10)  $-2t^2 - 11t + 1$

11)  $5x^4 - 5x^2 + 9$

12)  $-81x^8 + 22$