



## Adding and Subtracting Functions



Perform the indicated operation.

$$1) f(x) = 4x - 7$$

$$y(x) = 3x^2 + 2x + 1$$

Find:  $(f - g)(5)$

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

$$h(x) = 4x - 2$$

Find:  $(f - h)(2)$

$$3) g(t) = 2t + 4$$

$$f(t) = 10t + 5$$

Find:  $(g + f)(3)$

$$4) h(x) = x^3 + 5x$$

$$f(x) = 4x - 7$$

Find:  $(h + f)(1)$

$$5) f(x) = 2x^2 + 2x + 1$$

$$y(x) = 10x - 10$$

Find:  $(f - y)(-1)$

$$6) y(x) = x^3 - 5x$$

$$h(x) = x^3$$

Find:  $(y + h)(3)$

$$7) g(t) = 4t^2 - 4t$$

$$h(t) = 2t^2 - 5t + 1$$

Find:  $(g + h)(1)$

$$8) h(a) = 5a + 1$$

$$g(a) = 2a - 6$$

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

$$9) y(x) = x^3 - 5x$$

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

Find:  $(y + f)(5)$

$$10) f(u) = u^2 - 6$$

$$m(u) = 10u - u^2$$

Find:  $(f + m)(10)$



QUIZ ?

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## Adding and Subtracting Functions

## Answers



Perform the indicated operation.

1)  $f(x) = 4x - 7$

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

Find:  $(f - g)(5)$

**-73**

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

$h(x) = 4x - 2$

Find:  $(f - h)(2)$

**4**

3)  $g(t) = 2t + 4$

$f(t) = 10t + 5$

Find:  $(g + f)(3)$

**45**

4)  $h(x) = x^3 + 5x$

$f(x) = 4x - 7$

Find:  $(h + f)(1)$

**3**

5)  $f(x) = 2x^2 + 2x + 1$

$y(x) = 10x - 10$

Find:  $(f - y)(-1)$

**21**

6)  $y(x) = x^3 - 5x$

$h(x) = x^3$

Find:  $(y + h)(3)$

**39**

7)  $g(t) = 4t^2 - 4t$

$h(t) = 2t^2 - 5t + 1$

Find:  $(g + h)(1)$

**-2**

8)  $h(a) = 5a + 1$

$g(a) = 2a - 6$

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

**1**

9)  $y(x) = x^3 - 5x$

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

Find:  $(y + f)(5)$

**86**

10)  $f(u) = u^2 - 6$

$m(u) = 10u - u^2$

Find:  $(f + m)(10)$

**94**

QUIZ ?

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