

Perform the indicated operation.

1) $f(a) = 4a + 3$
 $g(a) = a - 5$
Find $(f + g)(8)$

2) $g(n) = 4n + 3$
 $f(n) = 3n - 3$
Find $(g - f)(3)$

3) $f(a) = -a + 2$
 $g(a) = a - 2$
Find $f(-3) + g(-3)$

4) $g(x) = x^2 + x$
 $f(x) = 4x$
Find $\left(\frac{g}{f}\right)(-2)$

5) $g(x) = 2x + 2$
 $h(x) = x^3 - x$
Find $g(-3) \cdot h(-3)$

6) $g(t) = 2t - 3$
 $f(t) = 4t + 2$
Find $g(-2) \cdot f(-2)$

7) $f(x) = 3x^3 + 3x$
 $g(x) = -4x$
Find $f(-2) + g(-2)$

8) $g(t) = 2t + 4$
 $f(t) = t^2 + 3$
Find $g(2) + f(2)$

9) $g(x) = 2x - 1$
 $f(x) = -3x - 5$
 Find $(g - f)(-4)$

10) $f(a) = a + 1$
 $g(a) = 3a + 4$
 Find $f(g(-4))$

11) $g(x) = 2x - 5$
 $f(x) = x^2 - 2$
 Find $(g + f)(-7)$

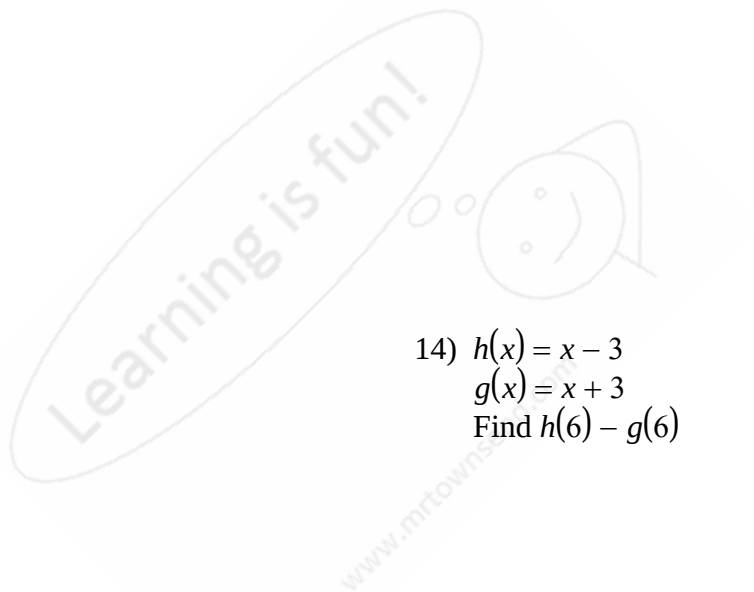
12) $h(x) = 2x + 1$
 $g(x) = -x^3 + 5x^2$
 Find $h(7) + g(7)$

13) $h(n) = -2n^2 + 4$
 $g(n) = 3n$
 Find $\left(\frac{h}{g}\right)(-7)$

14) $h(x) = x - 3$
 $g(x) = x + 3$
 Find $h(6) - g(6)$

15) $f(t) = -2t + 4$
 $g(t) = t^2 - 3t$
 Find $(f \cdot g)(5)$

16) $f(a) = 4a - 5$
 $g(a) = 4a + 5$
 Find $f(7) + g(7)$



Answers to

1) 38

2) 9

3) 0

4) $-\frac{1}{4}$

5) 96

6) 42

7) -22

8) 15

9) -16

10) -7

11) 28

12) -83

13) $\frac{94}{21}$

14) -6

15) -60

16) 56

