

Functions Review Worksheet #2

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Evaluate each function.

1) $w(x) = 4x$; Find $w(-1)$

2) $h(n) = 4n + 2$; Find $h(3)$

3) $h(x) = x^3 + 3x^2$; Find $h(-2x)$

4) $f(a) = a^3 + 2a$; Find $f(-2a)$

Perform the indicated operation.

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

6) $f(x) = x + 4$
 $g(x) = x + 1$
Find $(f - g)(x)$

7) $g(t) = 2t^2 - 2 - 2t$
 $h(t) = -3t + 3$
Find $(g \cdot h)(0)$

8) $h(x) = x + 3$
 $g(x) = x^2 - 4 - 2x$
Find $(h + g)(9)$

9) $h(n) = 3n + 2$
 $g(n) = 3n^2 + 2$
Find $\left(\frac{h}{g}\right)(-2 - b)$

10) $g(a) = a^2 - 4a$
 $f(a) = 4a + 4$
Find $(g + f)(-3a)$

11) $g(t) = t^3 - t^2$
 $f(t) = 3t + 4$
 Find $(5g - 3f)(t)$

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

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

14) $g(x) = -3x + 2$
 $h(x) = 3x + 3$
 Find $(4g - 2h)(-8)$

15) $f(n) = n + 3$
 $g(n) = n^3 - 2n$
 Find $(4f - 5g)(2n)$

16) $g(n) = n^2 + 5n$
 $h(n) = 3n$
 Find $(3g - 3h)(2n)$

17) $f(n) = n^3 - n$
 $g(n) = n - 2$
 Find $(f \circ g)(n)$

18) $g(a) = 3a + 4$
 $h(a) = 2a^3 + a$
 Find $(g \circ h)(a)$

19) $f(x) = 3x + 1$
 $g(x) = 4x + 4$
Find $(f \circ g)(7)$

20) $g(a) = a + 4$
 $f(a) = a^2 - a$
Find $(g \circ f)(3)$

21) $h(x) = 4x + 3$
 $g(x) = x^3 + 3x^2$
Find $(h \circ g)(-2 - x)$

22) $h(x) = 4x$
 $g(x) = -2x - 1$
Find $(h \circ g)(x - 1)$