

3.3 Part A: Evaluate Functions

Date _____ Period _____

Evaluate each function.

1) $k(x) = x^2 + 2$; Find $k(7)$

2) $k(n) = -4n$; Find $k(4)$

3) $w(x) = x^2 - 5x$; Find $w(10)$

4) $p(n) = n - 2$; Find $p(0)$

5) $p(n) = 3n - 1$; Find $p(4)$

6) $f(x) = -x^3 + 5x$; Find $f(-1)$

7) $p(n) = 3n + 1$; Find $p(4)$

8) $f(a) = 4a + 1$; Find $f(8)$

9) $h(t) = -3t$; Find $h(-3t)$

10) $h(x) = 3x - 3$; Find $h(-3 - x)$

11) $k(a) = a^3 + 3a$; Find $k(a^2)$

12) $h(n) = 2n + 5$; Find $h(n - 2)$

Perform the indicated operation.

13) $h(t) = t^2 - t$
 $g(t) = -t + 2$
Find $(h \cdot g)(t)$

14) $f(t) = 3t + 5$
 $g(t) = t^3 + t^2$
Find $(f + g)(t)$

15) $g(x) = -2x + 1$
 $f(x) = x^3 - 5$
Find $(g \cdot f)(x)$

16) $g(n) = -4n - 4$
 $f(n) = -n - 4$
Find $(g - f)(n)$

17) $h(x) = -x - 3$
 $g(x) = 2x^3 - 5x^2$
Find $(h \circ g)(x)$

18) $g(a) = a - 4$
 $h(a) = 4a + 4$
Find $(g \cdot h)(a)$

19) $g(x) = 3x - 3$
 $h(x) = -3x^2 + 2x$
Find $\left(\frac{g}{h}\right)(x)$

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