College Prep - Function Evaluation Name_____

Function Evaluation Practice

Date_____ Period____

Evaluate each function.

1) $f(x) = -4x + 2$; Find $f(-5)$

2) $w(x) = |x| - 3$; Find $w(-4)$

3) $g(a) = 3 \cdot 2^{-a} + 2$; Find $g(0)$

4) $f(x) = x^2 + 3x$; Find $f(-9)$

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

6) $w(x) = 2 \cdot 4^{-x+1} + 3$; Find $w(1)$

7) $p(x) = -2 \cdot 3^x$; Find $p(0)$

8) $g(n) = 2 \cdot 5^{n-1} + 2$; Find $g(0)$

9) $g(x) = |x - 1|$; Find $g\left(\frac{x}{3}\right)$

10) $f(t) = |t + 1| + 1$; Find $f(t^2)$

11) $w(t) = -3 \cdot 4^t$; Find $w(x^2)$

12) $f(n) = |3n + 1|$; Find $f(n - 4)$

13) $p(x) = |x - 3|$; Find $p\left(\frac{n}{2}\right)$

14) $g(n) = n^3 + 2$; Find $g(n - 3)$

15) $k(x) = x^2 + 3x$; Find $k(x^2)$

16) $g(a) = 3|-a| + 1$; Find $g(4a)$

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Date_____ Period____

Evaluate each function.

1) $f(x) = -4x + 2$; Find $f(-5)$

22

2) $w(x) = |x| - 3$; Find $w(-4)$

1

3) $g(a) = 3 \cdot 2^{-a} + 2$; Find $g(0)$

5

4) $f(x) = x^2 + 3x$; Find $f(-9)$

54

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

-27

6) $w(x) = 2 \cdot 4^{-x+1} + 3$; Find $w(1)$

5

7) $p(x) = -2 \cdot 3^x$; Find $p(0)$

-2

8) $g(n) = 2 \cdot 5^{n-1} + 2$; Find $g(0)$

$\frac{12}{5}$

9) $g(x) = |x - 1|$; Find $g\left(\frac{x}{3}\right)$

$\left|\frac{-3 + x}{3}\right|$

10) $f(t) = |t + 1| + 1$; Find $f(t^2)$

$t^2 + 2$

11) $w(t) = -3 \cdot 4^t$; Find $w(x^2)$

$-3 \cdot 4^{x^2}$

12) $f(n) = |3n + 1|$; Find $f(n - 4)$

$|3n - 11|$

13) $p(x) = |x - 3|$; Find $p\left(\frac{n}{2}\right)$

$\left|\frac{-6 + n}{2}\right|$

14) $g(n) = n^3 + 2$; Find $g(n - 3)$

$n^3 - 9n^2 + 27n - 25$

15) $k(x) = x^2 + 3x$; Find $k(x^2)$

$x^4 + 3x^2$

16) $g(a) = 3|-a| + 1$; Find $g(4a)$

$3|-4a| + 1$