

Evaluating Functions

Date _____ Period _____

Evaluate each function.

1) $f(a) = 3 \cdot 3^{a-1}$; Find $f(-1)$

2) $w(x) = 3x^3 - 3x^2$; Find $w(-1)$

3) $p(n) = n - 5$; Find $p(10)$

4) $k(a) = 5^{2a}$; Find $k(1)$

5) $g(n) = -2 \cdot 2^{3n+3} + 1$; Find $g(-1)$

6) $f(a) = 3a - 4$; Find $f(9)$

7) $g(x) = 2x + 2$; Find $g(7)$

8) $g(a) = -2a - 3$; Find $g(-7)$

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

10) $h(x) = 2x - 3$; Find $h(6)$

11) $k(n) = 2 \cdot 2^{3n} + 2$; Find $k(1)$

12) $p(x) = -3 \cdot 3^{-x-2}$; Find $p(2)$

13) $p(x) = x^3$; Find $p(-5)$

14) $h(x) = x^3 + 4x^2$; Find $h(4)$

15) $f(x) = 3x - 3$; Find $f(x - 2)$

16) $f(t) = t^3 - 5t$; Find $f(3b)$

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Date _____ Period _____

Evaluate each function.

1) $f(a) = 3 \cdot 3^{a-1}$; Find $f(-1)$

$$\frac{1}{3}$$

2) $w(x) = 3x^3 - 3x^2$; Find $w(-1)$

$$-6$$

3) $p(n) = n - 5$; Find $p(10)$

$$5$$

4) $k(a) = 5^{2a}$; Find $k(1)$

$$25$$

5) $g(n) = -2 \cdot 2^{3n+3} + 1$; Find $g(-1)$

$$-1$$

6) $f(a) = 3a - 4$; Find $f(9)$

$$23$$

7) $g(x) = 2x + 2$; Find $g(7)$

$$16$$

8) $g(a) = -2a - 3$; Find $g(-7)$

$$11$$

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

$$-14$$

10) $h(x) = 2x - 3$; Find $h(6)$

$$9$$

11) $k(n) = 2 \cdot 2^{3n} + 2$; Find $k(1)$

$$18$$

12) $p(x) = -3 \cdot 3^{-x-2}$; Find $p(2)$

$$-\frac{1}{27}$$

13) $p(x) = x^3$; Find $p(-5)$

$$-125$$

14) $h(x) = x^3 + 4x^2$; Find $h(4)$

$$128$$

15) $f(x) = 3x - 3$; Find $f(x - 2)$

$$3x - 9$$

16) $f(t) = t^3 - 5t$; Find $f(3b)$

$$27b^3 - 15b$$