Algebra 2H

Unit 2 Lesson 1 Introduction to Functions and their Notation

Evaluate each function.

1) $h(t) = 2\left|t + 3\right| + 2$; Find $h(5)$

2) $f(x) = -x + 3$; Find $f(10)$

3) $g(t) = -2t + 1$; Find $g(-4)$

4) $g(x) = 4x - 3$; Find $g(8)$

5) $h(x) = \left|x + 3\right| + 2$; Find $h(-4)$

6) $p(n) = \frac{5}{3} \cdot \left|n - 1\right|$; Find $p(0)$

7) $g(n) = \frac{3}{2}n + \frac{4}{5}$; Find $g(2)$

8) $h(n) = \frac{4}{3} \cdot 3^{n+1} - \frac{2}{3}$; Find $h(-1)$

9) $f(n) = 5^n$; Find $f(1)$

10) $p(n) = n^2 - \frac{1}{3}$; Find $p\left(-\frac{1}{8}\right)$

Evaluate each function. Round to the nearest hundredth if necessary.

11) $g(x) = 1.4x + 3$; Find $g(9.4)$

12) $h(a) = a^2 + 0.1a$; Find $h(3.1)$

13) $g(x) = 3^{x+2} - 0.6$; Find $g(-2)$

14) $w(n) = 3.6n + 4.7$; Find $w(-8.5)$

15) $p(x) = 1.3x + 1.5$; Find $p(0.2)$

Evaluate each function.

16) $g(x) = 4x + 2$; Find $g\left(\frac{x}{3}\right)$

17) $g(x) = x^2 + 2 + x$; Find $g(x - 1)$

18) $k(n) = -n^2 + 2$; Find $k(n + 3)$

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

20) $f(n) = 3 \cdot 4^{n+2}$; Find $f(3n)$

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Unit 2 Lesson 1 Introduction to Functions and their Notation

Evaluate each function.

1) $h(t) = 2\left|t + 3\right| + 2$; Find $h(5)$

18

2) $f(x) = -x + 3$; Find $f(10)$

−7

3) $g(t) = -2t + 1$; Find $g(-4)$

9

4) $g(x) = 4x - 3$; Find $g(8)$

29

5) $h(x) = \left|x + 3\right| + 2$; Find $h(-4)$

3

6) $p(n) = \frac{5}{3} \cdot \left|n - 1\right|$; Find $p(0)$

$\frac{5}{3}$

7) $g(n) = \frac{3}{2}n + \frac{4}{5}$; Find $g(2)$

$\frac{19}{5}$

8) $h(n) = \frac{4}{3} \cdot 3^{n+1} - \frac{2}{3}$; Find $h(-1)$

$\frac{2}{3}$

9) $f(n) = 5^n$; Find $f(1)$

5

10) $p(n) = n^2 - \frac{1}{3}$; Find $p\left(-\frac{1}{8}\right)$

$-\frac{61}{192}$

Evaluate each function. Round to the nearest hundredth if necessary.

11) $g(x) = 1.4x + 3$; Find $g(9.4)$

16.16

12) $h(a) = a^2 + 0.1a$; Find $h(3.1)$

9.92

13) $g(x) = 3^{x+2} - 0.6$; Find $g(-2)$

0.4

14) $w(n) = 3.6n + 4.7$; Find $w(-8.5)$

−25.9

15) $p(x) = 1.3x + 1.5$; Find $p(0.2)$

1.76

Evaluate each function.

16) $g(x) = 4x + 2$; Find $g\left(\frac{x}{3}\right)$

$2 + \frac{4}{3}x$

17) $g(x) = x^2 + 2 + x$; Find $g(x - 1)$

$x^2 - x + 2$

18) $k(n) = -n^2 + 2$; Find $k(n + 3)$

$-n^2 - 6n - 7$

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

$|a| - 3$

20) $f(n) = 3 \cdot 4^{n+2}$; Find $f(3n)$

$3 \cdot 4^{3n+2}$