

## HW25 Evaluating Functions

- 1) Draw the function definition diagram from today's notes and label all parts (name, input, output, rule, definition).

**Evaluate each function.**

2)  $g(x) = 3|-3x - 1|$ ; Find  $g(-9)$

3)  $f(n) = n^3 - 3$ ; Find  $f(1)$

4)  $h(n) = n - 5$ ; Find  $h(10)$

5)  $g(n) = n^2 + 3 + n$ ; Find  $g(7)$

6)  $k(n) = n + 4$ ; Find  $k(3)$

7)  $f(a) = a^2 + 3$ ; Find  $f(8)$

8)  $g(n) = -4n - 1$ ; Find  $g(0)$

9)  $k(t) = t^2 + 2t$ ; Find  $k(8)$

10)  $p(x) = x^2 - 4$ ; Find  $p(-10)$

11)  $w(x) = 2x - 2$ ; Find  $w(4)$

12)  $f(t) = -2|t| - 3$ ; Find  $f(8)$

13)  $w(t) = 4t + 5$ ; Find  $w(5)$

14)  $g(a) = |-3a|$ ; Find  $g(-4)$

15)  $w(n) = |n| + 3$ ; Find  $w(-3)$

16)  $g(n) = n^3 + 3n$ ; Find  $g(-1)$

17)  $f(t) = t^3 - 3t^2$ ; Find  $f(6)$

18)  $w(t) = |t - 2| + 3$ ; Find  $w(-6)$

19)  $f(x) = |x| - 5$ ; Find  $f(-5)$

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

21)  $k(x) = x + 5$ ; Find  $k(-1 - n)$

22)  $f(n) = 3n - 3$ ; Find  $f(-n)$

23)  $w(x) = x + 1$ ; Find  $w(-2 + t)$

24)  $f(x) = -250$ ; Find  $f(6)$

25)  $f(x) = 3r + 7$ ; Find  $f(12)$