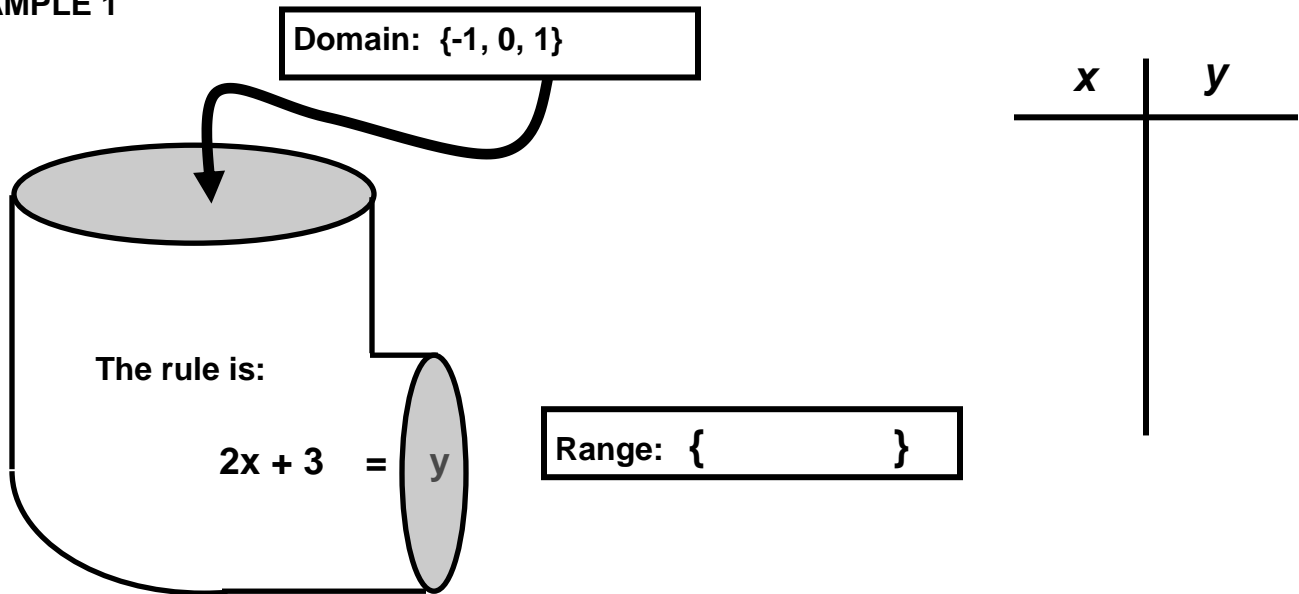


1. Wesley works at a shoe store. He is paid \$8 an hour plus a 7% commission on his total sales. Which of the following best represents  $t$ , Wesley's total weekly earnings if he works 30 hours and has total sales of  $s$  dollars?

- A.  $t = 0.08(30) + 0.07s$
- B.  $t = 8(30) + 7s$
- C.  $t = 8(30) + 0.07s$
- D.  $t = 8(30) + 0.7s$

A **FUNCTION** can be a \_\_\_\_\_ with \_\_\_\_\_ values (the **DOMAIN**) and \_\_\_\_\_ values (the **RANGE**).

### EXAMPLE 1



Ordered Pairs: \_\_\_\_\_

**FUNCTION NOTATION:** The rule  $y = 2x + 3$  can also be written as  $f(x) = 2x + 3$ , which tells you what  $x$  value to plug in to the rule. For example, to find  $f(-1)$ , you would replace  $x$  with  $-1$  in the rule.

**EXAMPLES:** Find the range of each function for the given domain.

2)  $f(x) = x^2 - 3$ ;  $D = \{-2, 0, 2\}$

3)  $g(x) = -2x - 4$ ;  $D = \{-4, -1, 2\}$

**EXAMPLE:** Find the values indicated.

4) For  $h = \{(-2, 6), (2, 8), (4, 10), (6, 12), (8, 14)\}$

$h(6) =$  \_\_\_\_\_

$h(-2) =$  \_\_\_\_\_

$h(8) =$  \_\_\_\_\_

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**EXAMPLES:** If  $f(x) = 2 - 1.3x$  and  $g(x) = .25x^2 - 9.1$ , find the following.

5)  $f(-2) =$  \_\_\_\_\_

6)  $g(5) =$  \_\_\_\_\_

7)  $f(4) + g(-1) =$  \_\_\_\_\_

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**EXAMPLES:** The following table shows values for function  $h(x)$ .

$x$	0	1	2	3	4
$h(x)$	-10	-7	4	29	74

**Evaluate the following:**

8)  $h(4) - 3 =$  \_\_\_\_\_

9)  $h(x + 2)$  for  $x = 2$  \_\_\_\_\_

10)  $3h(x)$  for  $x = 0$  \_\_\_\_\_