

CHAPTER 1 REVIEW

Directions: Evaluate each expression.

1) 3^5

2) $50 - [7 + (3^2 \div 2)]$

3) $15x - 8$ when $x=2$

4) $2(x - 1)^2$ when $x = 4$

Directions: Write an expression for the verbal situation.

5) 3 times the square of a number x .6) The product of a number z and 12 is 60

Directions: Solve using mental math.

7) $9 - h = 3$

8) $5v = 25$

Directions: Check to see if the given number is a solution.

9) $3x - 5 = 5$; 3

10) $\frac{b}{6} + 2 < 10$; 24

Directions: Find the unit rate in feet per second.

11) $\frac{300 \text{ yards}}{1 \text{ minute}}$

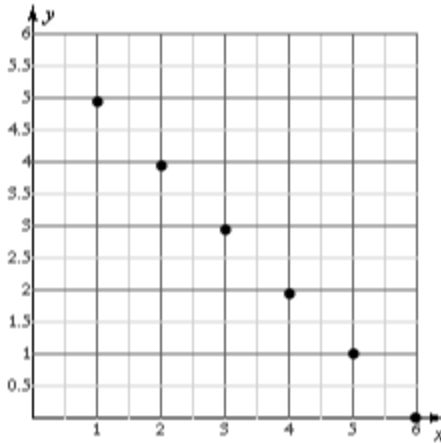
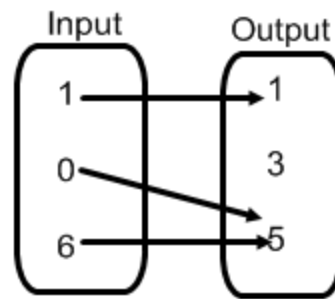
12) $\frac{171 \text{ miles}}{3 \text{ hours}}$

Directions: Tell whether each pairing is a function.

13)

Input	5	8	9	10
Output	4	3	2	1

14)



15) Find the Domain and Range of the graph to the left.

Domain:

Range:

16) Write a rule for the function represented by the graph at the left.

17) The table below shows the number of weeks in Algebra I class and the corresponding number of students failing Algebra each week.

Weeks, x	2	3	4	5	6
Failing students, y	2	11	20	29	38

a) Find the domain and range: domain:

range:

b) Write a rule for the number of students failing as a function of the number of weeks.

c) Predict how many students will be failing after 10 weeks.

d) Graph the function.

