

## Relations, Functions, Domain, and Range Assignment

### Relations Expressed as Ordered Pairs

Determine if the following relations are functions. Then state the domain and range.

1.  $\{(1, -2), (-2, 0), (-1, 2), (1, 3)\}$

Function: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

2.  $\{(1, 1), (2, 2), (3, 5), (4, 10), (5, 15)\}$

Function: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

3.  $\left\{\left(17, \frac{15}{4}\right), \left(\frac{15}{4}, 17\right), \left(15, \frac{17}{4}\right), \left(\frac{17}{4}, 15\right)\right\}$

Function: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

4.  $\left\{\left(-3, \frac{2}{5}\right), \left(-3, \frac{3}{5}\right), \left(\frac{3}{2}, -5\right), \left(5, \frac{2}{5}\right)\right\}$

Function: \_\_\_\_\_

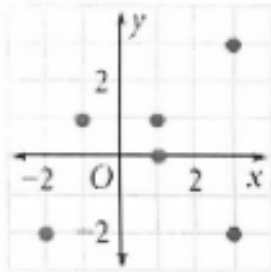
Domain: \_\_\_\_\_

Range: \_\_\_\_\_

### Relations Expressed as Graphing

Write each of the following as a relation, state the domain and range, then determine if it is a function.

5.



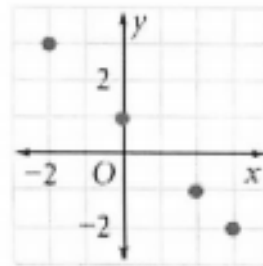
Relation: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_

6.



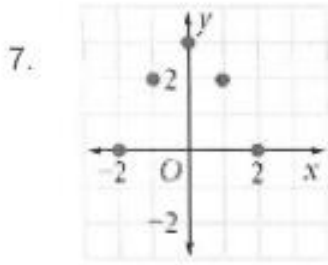
Relation: \_\_\_\_\_

Domain: \_\_\_\_\_

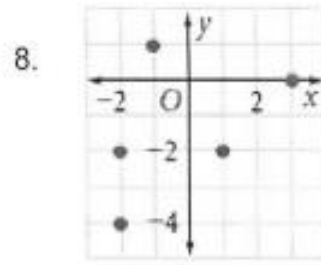
Range: \_\_\_\_\_

Function: \_\_\_\_\_

## Relations, Functions, Domain, and Range Assignment



Relation: \_\_\_\_\_  
 Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Function: \_\_\_\_\_



Relation: \_\_\_\_\_  
 Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Function: \_\_\_\_\_

### Relations Expressed as Mappings

Express the following relations as a mapping, state the domain and range, then determine if is a function.

9.  $\{(-2, -1), (0, 3), (5, 4), (-2, 3)\}$

Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Function: \_\_\_\_\_

10.  $\{(-1, 5), (0, 3), (2, 3), (3, -1)\}$

Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Function: \_\_\_\_\_

11.  $\{(-1, 7), (0, -3), (1, 10), (0, 7)\}$

Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Function: \_\_\_\_\_

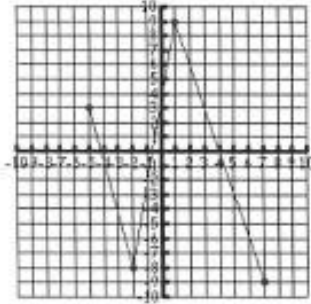
12.  $\left\{\left(\frac{1}{2}, 2\right), \left(\frac{1}{4}, 2\right), \left(\frac{1}{8}, 2\right), \left(\frac{-1}{2}, 2\right)\right\}$

Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Function: \_\_\_\_\_

## Relations, Functions, Domain, and Range Assignment

Determine if the graph is a function, then state the domain and range.

13.

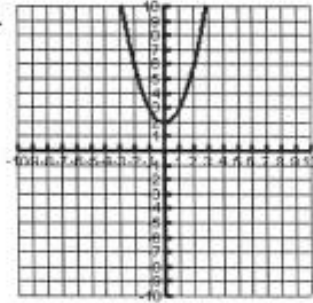


Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_

14.

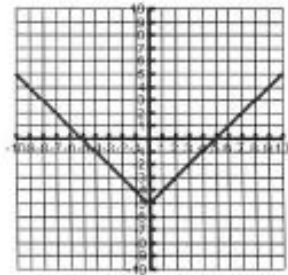


Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_

15.

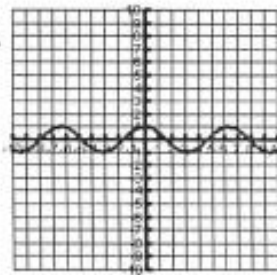


Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_

16.

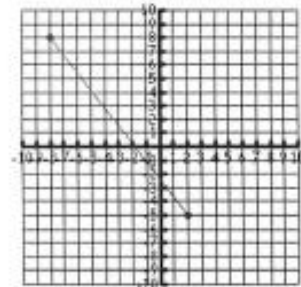


Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_

17.

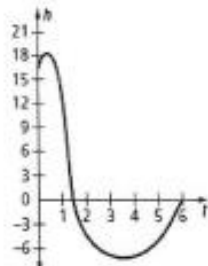


Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_

18.

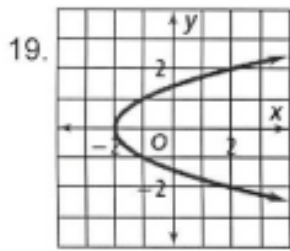


Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_

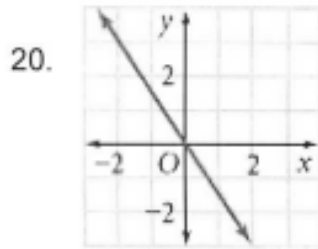
## Relations, Functions, Domain, and Range Assignment



D: \_\_\_\_\_

R: \_\_\_\_\_

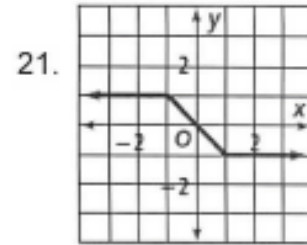
F: \_\_\_\_\_



D: \_\_\_\_\_

R: \_\_\_\_\_

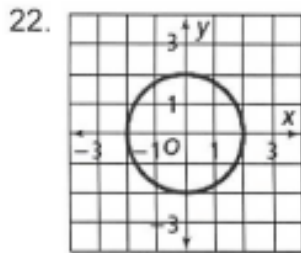
F: \_\_\_\_\_



D: \_\_\_\_\_

R: \_\_\_\_\_

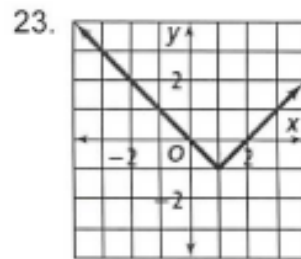
F: \_\_\_\_\_



D: \_\_\_\_\_

R: \_\_\_\_\_

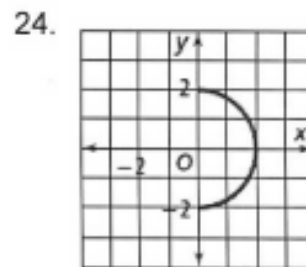
F: \_\_\_\_\_



D: \_\_\_\_\_

R: \_\_\_\_\_

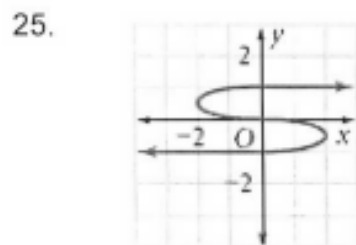
F: \_\_\_\_\_



D: \_\_\_\_\_

R: \_\_\_\_\_

F: \_\_\_\_\_



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: \_\_\_\_\_