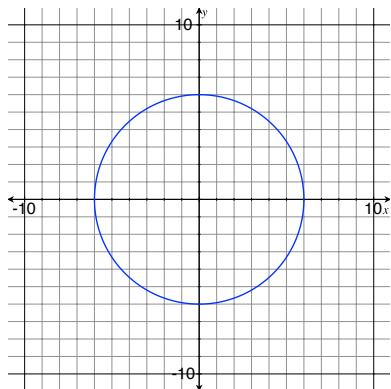
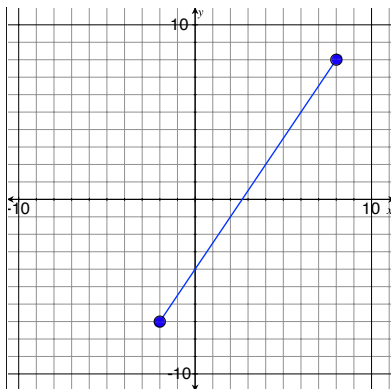
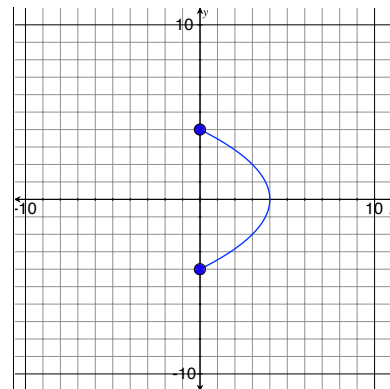
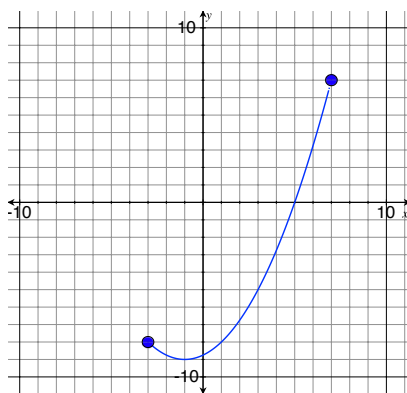
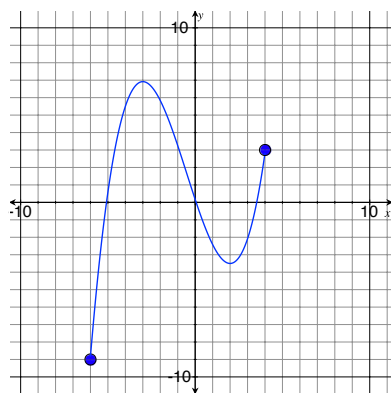
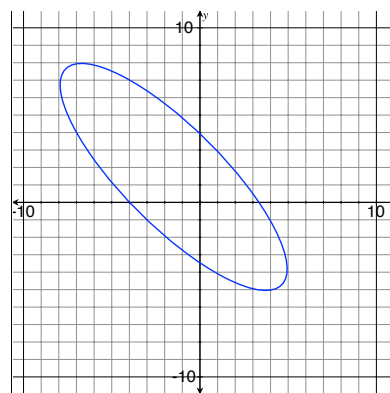


**Functions Worksheet 1**

For exercises 1-6, decide whether each graph is the graph of a function. Then determine domain and range.

**1.****(a)** Is it a function?**(b)** Domain:**(c)** Range:**2.****(a)** Is it a function?**(b)** Domain:**(c)** Range:**3.****(a)** Is it a function?**(b)** Domain:**(c)** Range:**4.****(a)** Is it a function?**(b)** Domain:**(c)** Range:**5.****(a)** Is it a function?**(b)** Domain:**(c)** Range:**6.****(a)** Is it a function?**(b)** Domain:**(c)** Range:

For exercises 7-12, use each table to determine whether the relation is a function. Then determine the domain and range.

7.

$x$	2	4	6	8	10
$y$	1	3	5	7	9

(a) Is it a function?

(b) Domain:

(c) Range:

8.

$x$	2	2	4	4	6
$y$	-5	0	5	10	15

(a) Is it a function?

(b) Domain:

(c) Range:

9.

$x$	1	2	3	4	5
$y$	-5	-5	5	5	15

(a) Is it a function?

(b) Domain:

(c) Range:

10.

$x$	0	5	10	15	20
$y$	3	6	9	12	15

(a) Is it a function?

(b) Domain:

(c) Range:

11.

$x$	-9	7	0	3	-4
$y$	-2	12	-6	7	12

(a) Is it a function?

(b) Domain:

(c) Range:

12.

$x$	-4	9	2	-4	6
$y$	-10	8	2	-3	14

(a) Is it a function?

(b) Domain:

(c) Range:

For exercises 13-18, determine whether each relation is a function. Then determine the domain and range.

13.

$\{(0, -7), (2, 5),$   
 $(-3, 1), (-8, 0)\}$

(a) Is it a function?

(b) Domain:

(c) Range:

14.

$\{(3, -5), (8, -6),$   
 $(3, 7), (5, 9)\}$

(a) Is it a function?

(b) Domain:

(c) Range:

15.

$\{(-4, 7), (2, -3),$   
 $(7, 7), (-5, 1)\}$

(a) Is it a function?

(b) Domain:

(c) Range:

16.

$\{(0, -4), (0, 2),$   
 $(0, 1), (0, 0)\}$

(a) Is it a function?

(b) Domain:

(c) Range:

17.

$\{(8, -3), (2, -3),$   
 $(9, -3), (-1, -3)\}$

(a) Is it a function?

(b) Domain:

(c) Range:

18.

$\{(9, -7), (4, 3),$   
 $(-2, 0), (9, -1)\}$

(a) Is it a function?

(b) Domain:

(c) Range: