

# Practice 4-2

Find the domain and range of each relation. Is each relation a function?

1.

x	y
6	3
9	-7
6	-2
-1	-5

2.

x	y
-30	-30
20	20
-10	-10
0	0

3.

x	y
100	7
50	7
-50	0
25	0

4.

x	y
8	2
8	4
8	-5
8	-2

Find the domain and range of each relation. Use a mapping diagram to determine whether each relation is a function.

5.  $\{(4, 2), (9, 11), (4, -5), (10, -1)\}$

6.  $\{(7, 0), -3, -2), (6, -5), -4, 0)\}$

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

8.  $\{(-5, -4), -4, 2), (0, 2), (1, 3), (2, 4)\}$

Find the domain and range of each relation. Use the vertical-line test to determine whether each relation is a function.

9.  $\{(14, 18), (18, 14), (22, 12), (12, 22)\}$

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

11.  $\{(-4, -3), (-2, -2), (0, -1), (1, -1/2)\}$

12.  $\{(0, 0), (1, 1), (4, 2), (1, -1)\}$

