SM 2
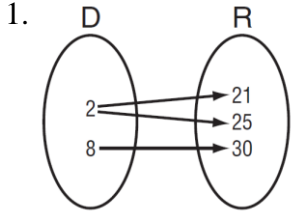
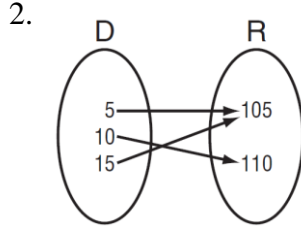# 1.1 Homework - Functions

Indicate whether each relation is a function by circling yes or no. Then write the relation as a set of ordered pairs.

1.

Function? Yes / No

Ordered Pairs:

2.

Function? Yes / No

Ordered Pairs:

3.

x	y
−3	0
−1	−1
0	0
2	−2
3	4

Function? Yes / No

Ordered Pairs:

Indicate whether each relation is a function by circling yes or no. Then find the domain and range.

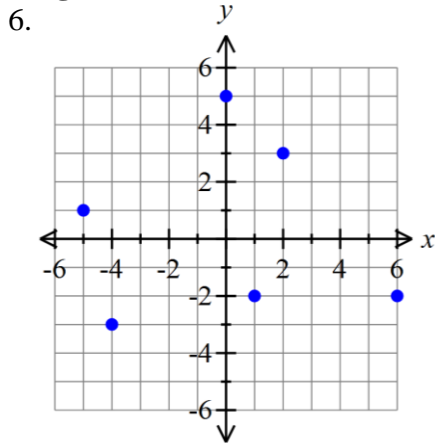4. $\{(3,-6),(-2,4),(7,4),(-8,3)\}$

Function? Yes / No

Domain:

Range:

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

Function? Yes / No
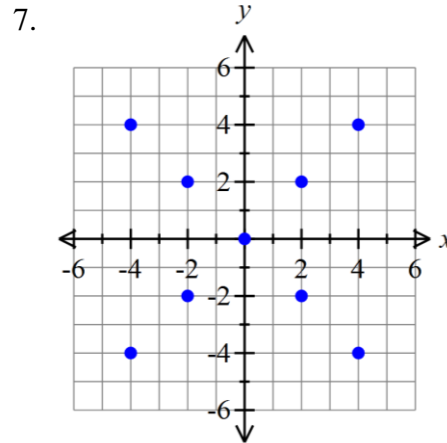
Domain:

Range:

Indicate whether each graph represents a function by circling yes or no. Then find the domain and range.

6.

Function? Yes / No

Domain:

Range:

7.

Function? Yes / No

Domain:

Range:

Determine if the situation is a function. Then describe the domain and range in words from the real-life situations.

8. A teacher writes a simple computer program where she can type a student's name and the computer tells her the student's birthday.

Is this a function? Why or why not?

Domain:

Range:

9. A teacher writes a simple computer program where she can type a date and the computer tells her all the students who have a birthday on that date.

Is this a function? Why or why not?

Domain:

Range:

Describe the domain and range in words from the real-life situations.

10. A school needs a chaperone for every 20 students going to a dance. The school has 500 students. Assume that students from other schools aren't allowed at the dance.

Circle which unit represents the domain: Students or Chaperones

Domain:

Range:

11. The parking lot for a movie theater in the city has no charge for the first hour, but charges $1.50 for each additional hour or part of an hour with a maximum charge of $7.50 per day.

Circle which unit represents the domain: Money or Time

Domain:

Range: