# Review Lesson 11
# Domain and Range

NAME:

Start by navigating to the Online Lesson for instructions.

## Objectives

- Name the domain and range from a relation, table, or graph.
- Determine if a function exists from the domain and range.

## Introduced in:

*Algebra 1: Principles of Secondary Mathematics*
Lesson 7A

## Domain and Range

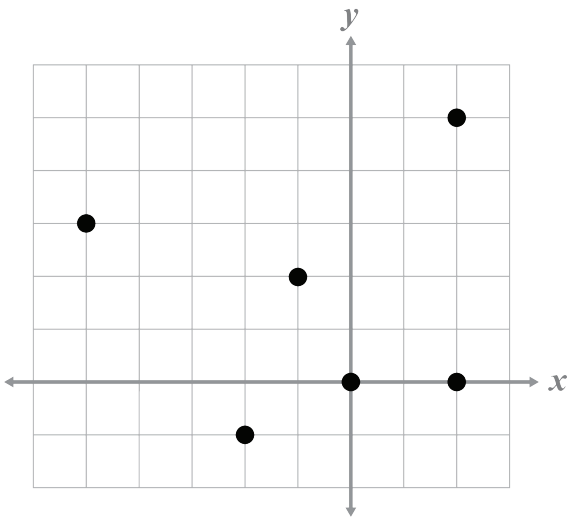
*Fill in the notes as you watch the video in the Online Lesson.*

- A _____ represents the relationship between _____ variables, $x$ and $y$.
- A relation can be expressed as:
  - a set of _____.
  - a table of _____.
  - a _____ on a coordinate plane.
- The _____ is the set of all possible $x$-coordinates.
- The _____ is the set of all possible $y$-coordinates.
- The domain and range are written in set brackets { } in _____ order with no repeated values.
- The domain is analyzed to determine if a relation is a _____.
- When no domain values are _____, the relation is also a function.

## Example 1

*Complete the example as you watch the video in the Online Lesson.*

**Given the graph of the relation, list the set of ordered pairs that make up the relation ($Q$). Then provide the domain and range of the relation.**




Domain:

Range:

This is not a function because the domain has repeated values.

## Example 2

*Complete the example as you watch the video in the Online Lesson.*

**Name the domain and range for the given relation.**

$P$:{(–12, 8), (–8, 8), (–8, –8), (4, 2), (4, –8), (8, 8)}

Domain:

Range:

This is _____ a function because the domain has repeated values.

## Practice

**Name the domain and range. Determine if the relation represents a function.**

**1)**

| $x$ | $y$ |
|---|---|
| −2 | 5 |
| −1 | 2 |
| 0 | 1 |
| 1 | 2 |
| 2 | 5 |

**2)**

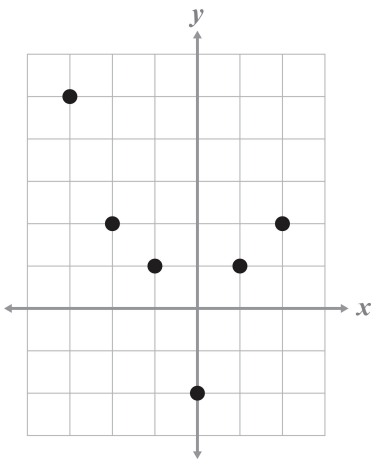
| $x$ | $y$ |
|---|---|
| −3 | 13 |
| 0 | 4 |
| 1 | 5 |
| 2 | 9 |

**3)** {(2, −1), (4, −3), (2, −2), (8, −5), (6, −4)}

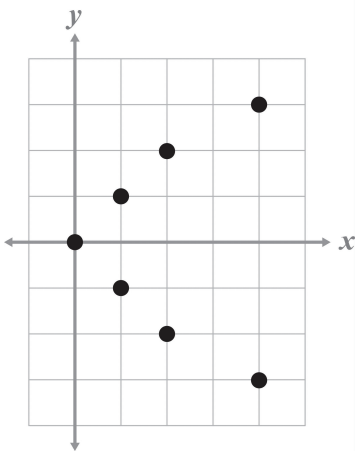
**4)** {(−5, 7), (3, 7), (−1, 3), (7, −5)}

**Name the domain and range. Determine if the relation represents a function.**

**5)**




**6)**




**7)** {(–4, 1), (–1, 2), (5, 8), (8, 11)}

**8)** {(3, –1), (4, –1), (5, –1), (6, –1)}

**To continue, return to the Online Lesson.**