

Formalizing Relations and Functions Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. The domain of a relation is the set of all:

- a. y-values
- b. x-values
- c. both x and y values
- d. None of these

2. A relation is a function if each value in the domain is associated with:

- a. All values in range
- b. All values in domain
- c. Each value in range
- d. Both b and c

3. The test used to tell whether the graph of a relation represents a function is:

- a. Horizontal line test
- b. Vertical line test
- c. Origin test
- d. None of these

4. If a vertical line passes through more than 1 point on the graph at one time, then the graph is a :

- a. Function
- b. Relation
- c. Not a Function
- d. None of these

Part B Instructions: Answer the question below.

5. Write the domain and range of each relation. Use a mapping diagram to determine whether the relation is a function or not.

$$R = \{(2,4),(8,11),(9,4),(4,2)\}$$

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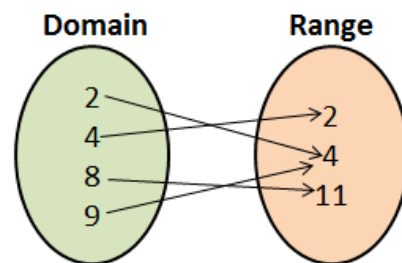
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$$R = \{(2,4),(8,11),(9,4),(4,2)\}$$

Domain: {2,4,8,9}

Range: {2,4,11}

It is a function



Relation R

$$\text{Relation } R = \{(2,4),(8,11),(9,4),(4,2)\}$$