

De La Salle Santiago Zobel School
Learning Standards Department

"Be a Spark. Take the Lead"

UNIT: 3 AY: 2026-2027 TERM: 1 SUBJECT: Mathematics 9

MODULE NO: 1 TYPE: ☐ PRE ☐ SELF ☒ FOR ☐ SUM WORKSHEET NO.: 4

MODULE TITLE: Relations and Functions

SCORE

ASSESSMENT TOPIC/S: Relations vs Functions, Domain and Range of Functions,
Evaluating Functions

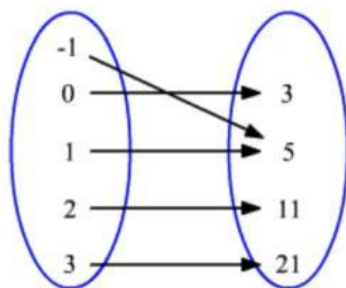
22

NAME: _____ SECTION: _____

TEACHER: _____ DATE: _____

I. Express the relation shown in each mapping as a set of ordered pairs then identify the type of relation or correspondence and its domain and range.

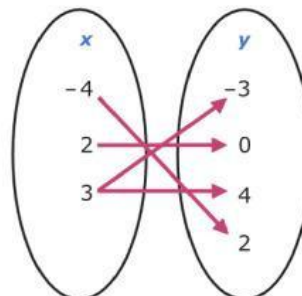
1.



Type of Relation: (1 point) _____

Function or Not? (1 point) _____

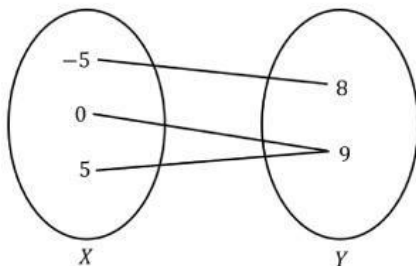
2.



Type of Relation: (1 point) _____

Function or Not? (1 point) _____

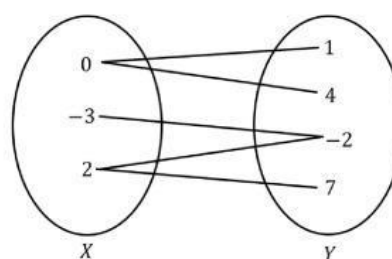
3.



Type of Relation: (1 point) _____

Function or Not? (1 point) _____

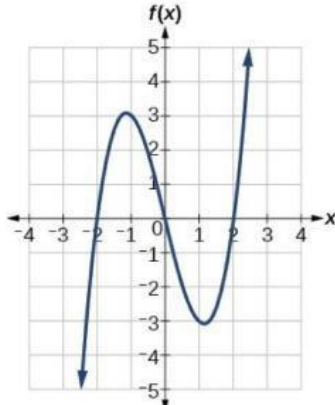
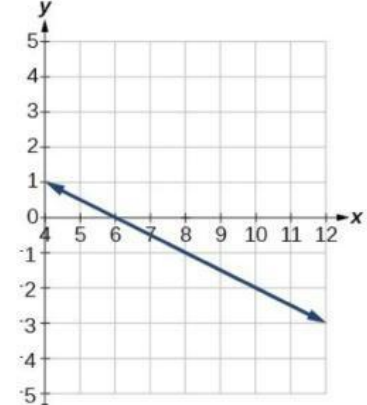
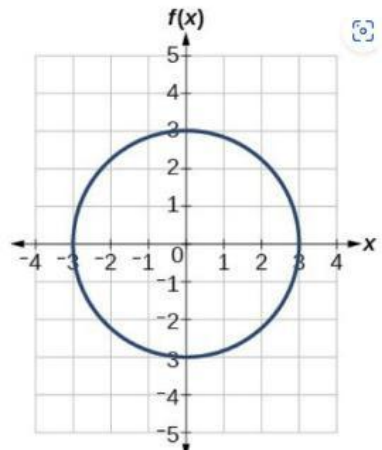
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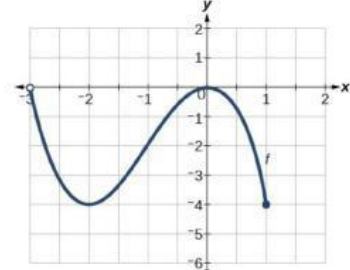
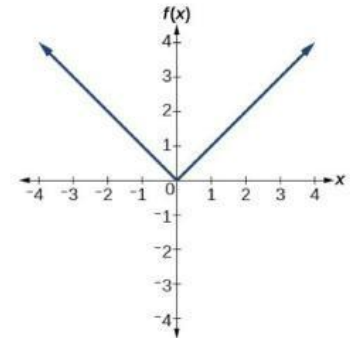
Type of Relation: (1 point) _____

Function or Not? (1 point) _____

II. State whether each of the following graphs represents a function. Write F if it is a function, NF if it is not.

		
Answer: (1 point) _____	Answer: (1 point) _____	Answer: (1 point) _____

III. Determine the domain and range of the following relations. (8 points)

1. <table border="1" style="margin: 10px auto; text-align: center;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>-2</td><td>-7</td></tr> <tr><td>-1</td><td>-4</td></tr> <tr><td>0</td><td>-1</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>5</td></tr> </tbody> </table> (Listing)	x	y	-2	-7	-1	-4	0	-1	1	2	2	5	2. $y = \frac{1}{x + 5}$ (Set-Builder)
x	y												
-2	-7												
-1	-4												
0	-1												
1	2												
2	5												
Domain: _____	Domain: _____												
Range: _____	Range: _____												
3. 	4. 												
Set-Builder Notation	Set-Builder Notation												
Domain: _____	Domain: _____												
Range: _____	Range: _____												

IV. Read the given problem then write the function rule using function notation.

Problem: A food delivery service charges a fixed booking fee of ₱35 plus ₱12 for every kilometer traveled. Let d represent the distance (in kilometers) from the restaurant to the customer's location.

A. Write the function rule that represents the total delivery fee using function notation.

B. Mary and Ben ordered from the same restaurant. Mary lives **5 km** away, while Ben lives **11 km** away. Using the function rule, determine each person's delivery fee.

Solution:

Mary's Delivery Fee:

Solution:

Ben's Delivery Fee: