NAME _____ **DATE** _____

Module 9   Using Functions
Lesson 1   Defining Relations and Functions

guided
practice

Set 1

1. Find the domain and range of the relation represented by the set

$M = \{(-1, 2), (-1, 4), (0, 5), (3, -7)\}$ _____

2. Graph on the coordinate plane the relation
represented by the following mapping diagram:

y

x
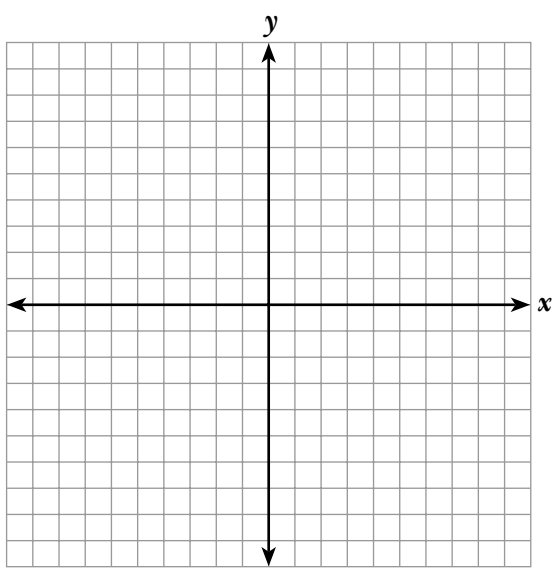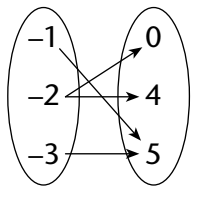
3. Find the domain and range of the relation given by the equation $y = x^2$.

_____

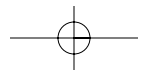**4.** The relation given by the equation $y = x - 3$ has a domain of $\{-1, 0, 1\}$. Find the

range. _____

Set 2

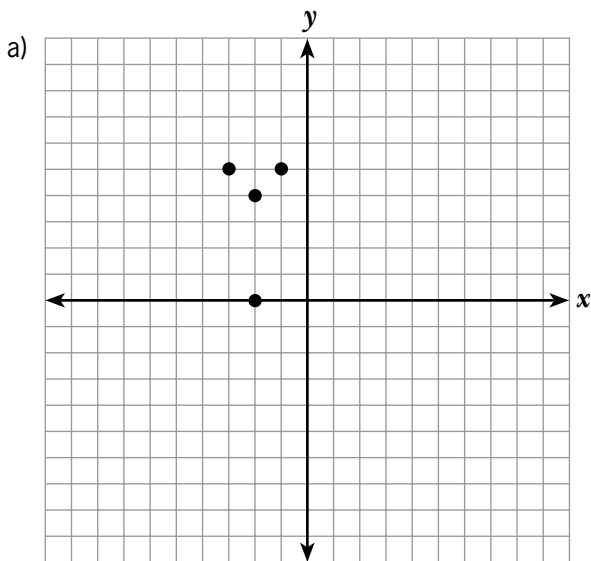**1.** How are relations and functions alike? How are they different?

_____

_____

_____

_____

2. Explain why the vertical line test can be used to determine whether a graph

represents a function. _____

_____

_____

_____

3. Which of the following relations are functions? Write *Yes* if it is a function or *No* if it
is not a function. Then give a reason for your choice.

a)

_____

b) $T = \{(0, 4), (5, 4), (0, 1)\}$

_____

c)

x	y
0	0
1	9
2	18

_____

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