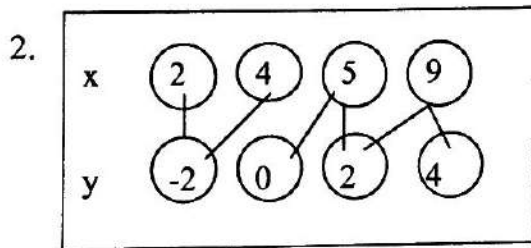


Name: Key Per: _____ Date: _____

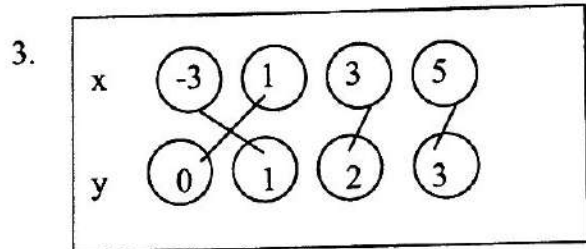
WORKSHEET – DOMAINS AND RANGES OF RELATIONS AND FUNCTIONS

Part 1 – Identify Domains, Ranges, and Functions. Identify the domain and range of each relation given below. Then determine if the relation represents a function. Record your answers in the appropriate spaces provided for each problem.

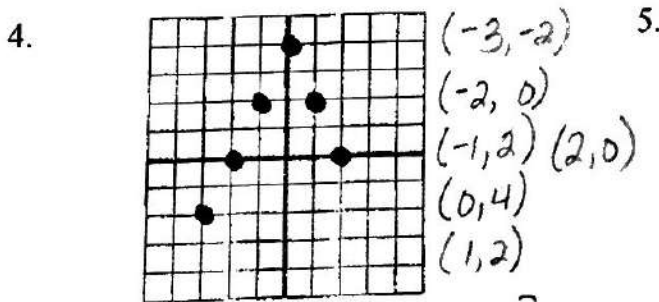
1. $\{(2, 3), (-1, 5), (0, -1), (3, 5), (5, 0)\}$
 Domain: $\{-1, 0, 2, 3, 5\}$
 Range: $\{-1, 0, 3, 5\}$
 Function: yes no



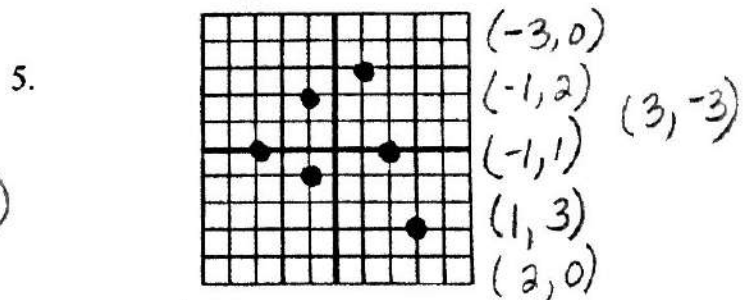
Domain: $\{2, 4, 5, 9\}$
 Range: $\{-2, 0, 2, 4\}$
 Function: yes no



Domain: $\{-3, 1, 3, 5\}$
 Range: $\{0, 1, 2, 3\}$
 Function: yes no



Domain: $\{-3, -2, -1, 0, 1, 2\}$
 Range: $\{-2, 0, 2, 4\}$
 Function: yes no

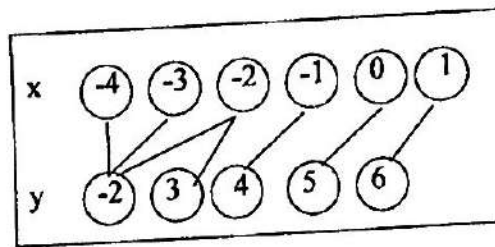


Domain: $\{-3, -1, 1, 2, 3\}$
 Range: $\{-3, 0, 1, 2, 3\}$
 Function: yes no

Name: Key Per: _____ Date: _____

Part 2 – Different Representations. Read each problem carefully and perform the indicated task. Also, for each problem, determine if the relation given represents a function and record your answers in the appropriate spaces provided for each problem.

6. Rewrite the relation given to the right as a set of ordered pairs.



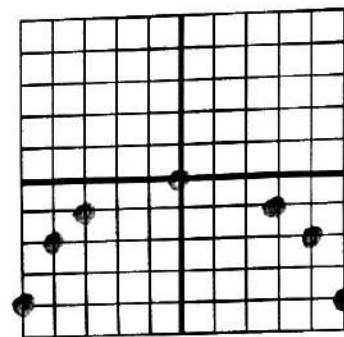
Answer:

$\{(-4, -2), (-3, -2), (-2, -2), (-2, 3), (-1, 4), (0, 5), (1, 6)\}$

Function: yes no

7. Graph the relation given below on the coordinate plane to the right.

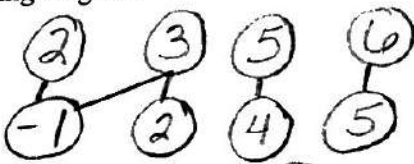
x	-5	-4	-3	0	3	4	5
y	-4	-2	-1	0	-1	-2	-4



Function: yes no

8. Construct a mapping diagram in the space below to represent the following set of ordered pairs:
(2, -1), (3, 2), (5, 4), (3, -1), (6, 5)

Mapping diagram:

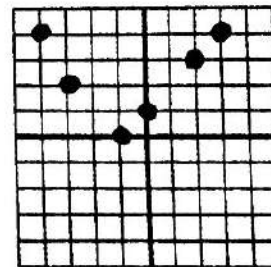


Function: yes no

9. Create a table that is equivalent to the relation graphed on the coordinate plane to the right.

Table:

x	-4	-3	-1	0	2	3
y	4	2	0	1	3	4



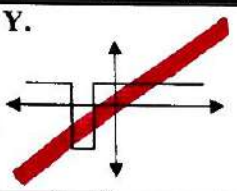
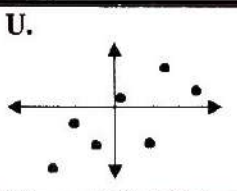
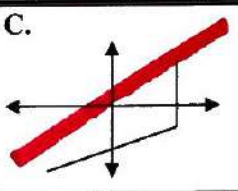
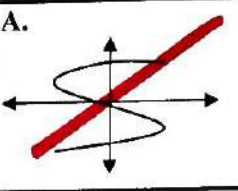
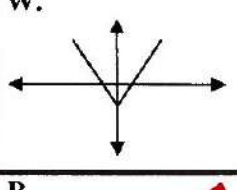
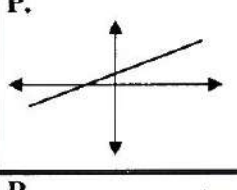
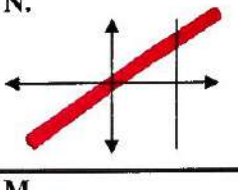
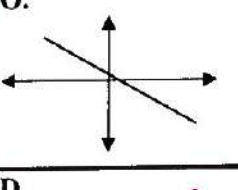
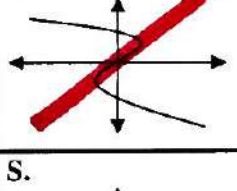
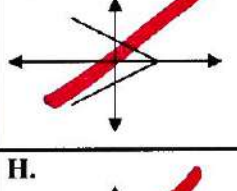
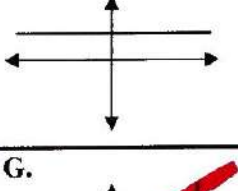
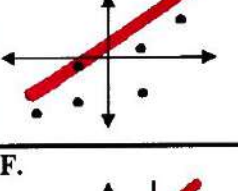
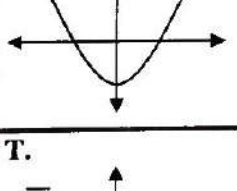
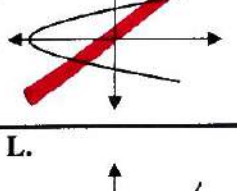
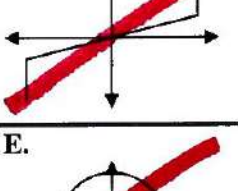
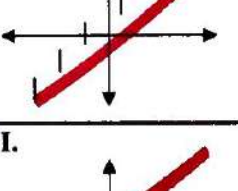
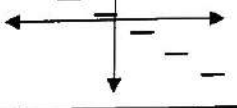
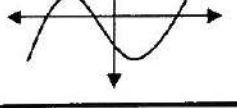
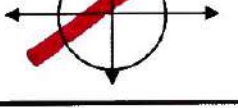

Function: yes no

Key

What's a Forum?

Functions and Their Graphs

Find the graphs that are **NOT** functions. Cross out their corresponding letter in the answer grid below.

Y. 	U. 	C. 	A. 
W. 	P. 	N. 	O. 
B. 	R. 	M. 	D. 
S. 	H. 	G. 	F. 
T. 	L. 	E. 	I. 

ANSWER: T W D . O M P L S P L S T W D . O M

T	W	D	.	O	M	P	L	S	P	L	S	T	W	D	.	O	M
T	W	D	.	O	M	P	L	S	P	L	S	T	W	D	.	O	M

(Place remaining letters in the order they appear in blanks above)