Pangasinan National High School

General Mathematics

First Semester SY 2020-2021

Nam	ksheet No. 1: Functions ne: ion:	Score:
I. D	Pirection: Find an expression for $f(x)$ and state its d	lomain. (15 pts)
1.	f is a function that takes a real number x and perfor given: (1) multiply by 2; (2) add 3; (3) divide by 4. Answer:	rms the following three steps in the order
2.	f is a function that takes a real number x and perforgiven: (1) add 3; (2) multiply by 2; (3) divide by 4. Answer:	rms the following three steps in the order
3.	f is a function that takes a real number x and perforgiven: (1) divide by 4; (2) add 3; (3) multiply by 2. Answer:	rms the following three steps in the order
4.	f is a function that takes a real number x and perforgiven: (1) multiply by 2; (2) add 3; (3) take the squ Answer:	
5.	f is a function that takes a real number x and perforgiven: (1) add 3; (2) multiply by 2; (3) take the squ Answer:	
	Direction: Determine whether or not the relation reain and range of those relations which are functions.	_
1.	. $\{(-3,9), (-2,4), (-1,1), (0,0), (1,1), (2,4), (3,9)\}$ Function/Not a Function: Domain: Range:	
2.	. $\{(-3,0),(1,6),(2,-3),(4,2),(-5,6),(4,-9),(6,2)\}$ Function/Not a Function: Domain: Range:	
3.	$\{(-3,0),(-7,6),(5,5),(6,4),(4,9),(3,0)\}$ Function/Not a Fuunction: Domain: Range:	
4.	$\{(1,2),(4,4),(9,6),(16,8),(25,10),(36,12),\}$ Function/Not a Function: Domain: Range:	

5. $\{(1,0),(2,1),(4,2),(8,3),(16,4),(32,5),...\}$

Function/Not a Function:

Domain:

Range:

III. Direction: Determine whether or not the relation represents y as a function of x. Find the domain and range of those relations which are functions. (20 pts)

1. Function/Not a Function:

 $\ \, \hbox{Domain:}$

Range:

3. Function/Not a Function:

Domain:

Range:

2. Function/Not a Function:

Domain:

Range:

4. Function/Not a Function:

Domain:

Range:

IV. Direction: Determine whether or not the equation represents y as a function of x. (10 pts)

1.
$$y = x^3 - x$$

2.
$$y = \sqrt{x-2}$$

3.
$$x^3y = -4$$

4.
$$x^2 - y^2 = 1$$

5.
$$x = -6$$