Name_____ PS Video #5 A2 Summer 24 Functions/Transformations

Determine if the following are functions and state the domain/range.

1. {(1, -2), (-2, 0), (-1, 2), (1, 3)}

Function: _____

Domain: _____

Range: _____

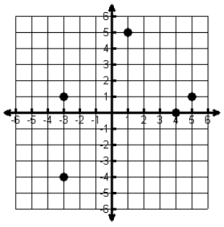
2. {(1, 1), (2, 2), (3, 5), (4, 10), (5, 15)}

Function: _____

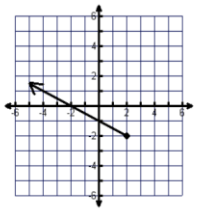
Domain: _____

Range: _____

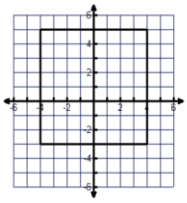
3) Domain_____
Range_____
Function?_____



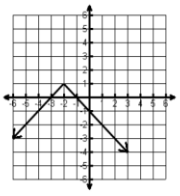
4) Domain_____
Range_____
Function?_____



5) Domain_____
Range_____
Function?_____

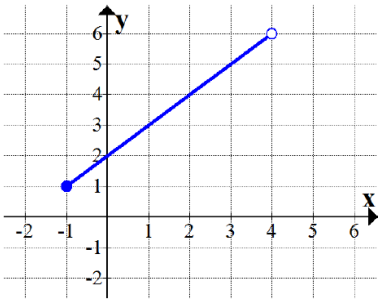


6) Domain_____
Range_____
Function?_____



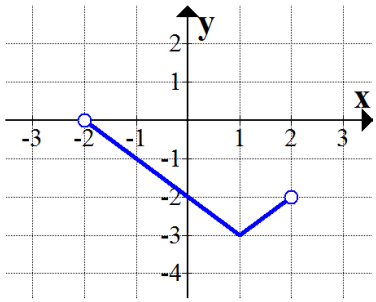
State domain and range using interval notation:

1.



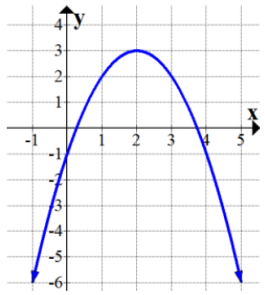
Domain:
Range:

2.



Domain:
Range:

3.

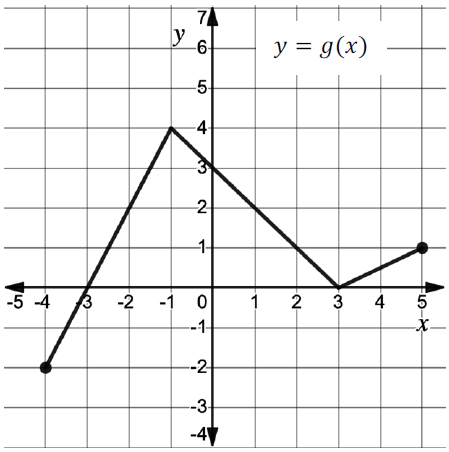


Domain:
Range:

Evaluate the functions given $f(x)$ *is the table,* $h(x)$ *is the equation,* $g(x)$ *is the graph*

$$h(x) = x^2 - 5$$

x	$f(x)$
-3	-8
-1	-5
0	1
4	3
5	-2
8	0
10	-11

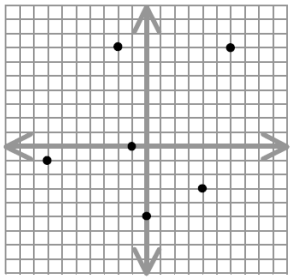


1. Find $f(5)$, $g(5)$, and $h(5)$.

2. Find $f(-1), g(0)$ *and* $h(-3)$

Determine the domain and range for each function. Then evaluate the function.

18.



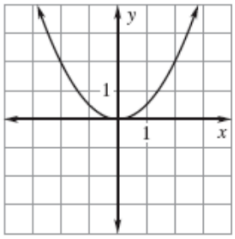
Domain: _____

Range: _____

$f(4) =$ _____

$f(-2) =$ _____

19.



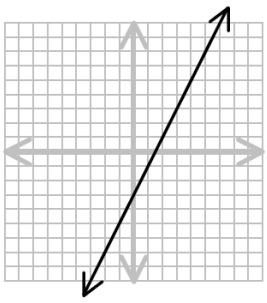
Domain: _____

Range: _____

$f(2) =$ _____

$f(0) =$ _____

20.



Domain: _____

Range: _____

$f(-1) =$ _____

$f(0) =$ _____

List all the following transformations based on the given equation.

	Transformations:
$y = -4(x + 5)$	
$y = -\frac{1}{2}x$	
$y = 2(x - 6) + 3$	
$y = \frac{1}{4}(-x)$	
$y = -3(x) - 5$	

Identify the type of functions based on the equation:

	Function:
$y = \sqrt{x}$	
$y = \|x\|$	
$y = x$	
$y = x^2$	
$y = x^{a+\cdots}$	
$y = 2^x$	