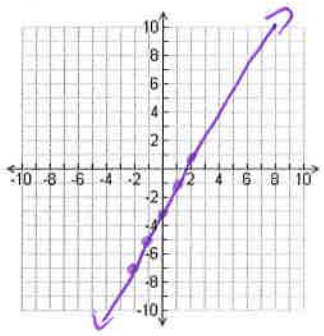
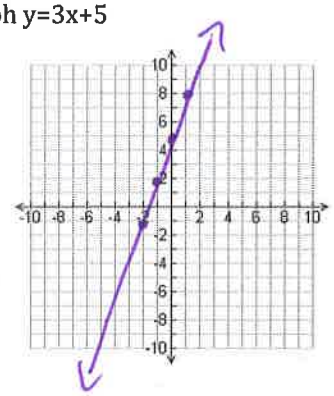
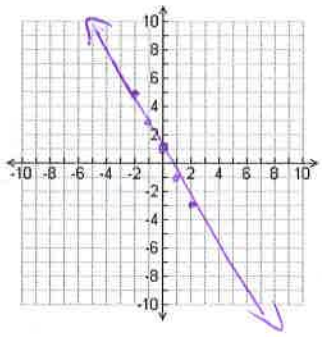
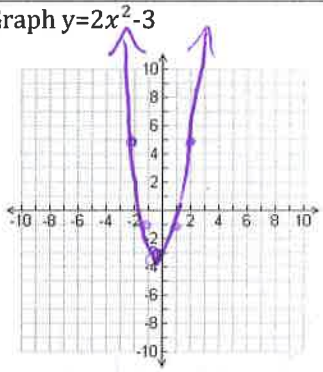
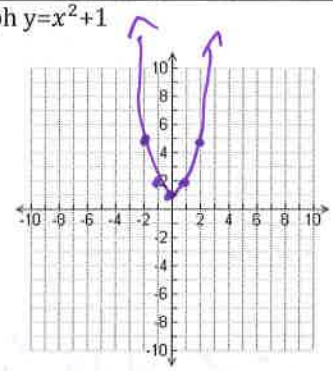
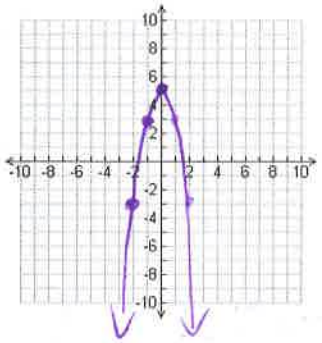
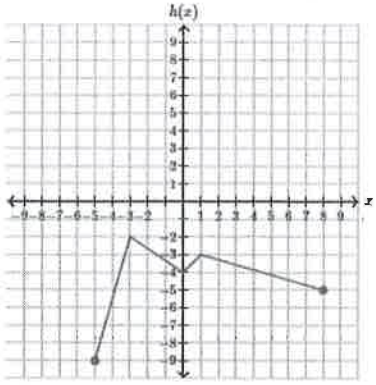
Name: KEY BLOCK_____

Math 10 100% Quiz Unit 3

Column 1.	Column 2. *Complete this column if you make an error in column 1.*	Column 3 *Complete this column if you make an error in column 2.*
1. Graph y=2x-3 	Graph y=3x+5 	Graph y=-2x+1 
x | y -2 | -7 -1 | -5 0 | -3 1 | -1 2 | 1	x | y -2 | -1 -1 | 2 0 | 5 1 | 8 2 | 11	x | y -2 | 5 -1 | 3 0 | 1 1 | -1 2 | -3
2. Graph $y=2x^2-3$ 	Graph $y=x^2+1$ 	Graph $y=-2x^2+5$ 

Name:_____BLOCK_____

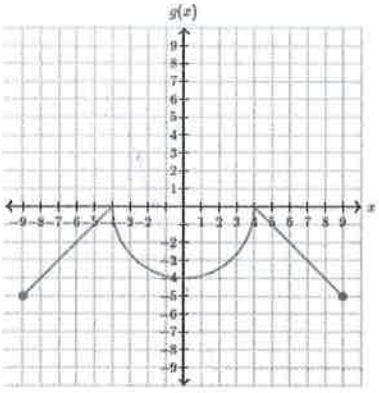
3. Determine the domain and range of the following in inequality form:



D: $-5 \leq x \leq 8$

R: $-9 \leq y \leq -2$

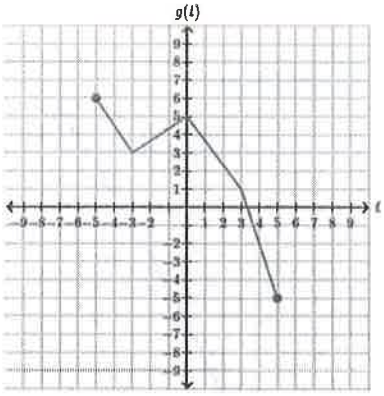
Determine the domain and range of the following in inequality form:



D: $-9 \leq x \leq 9$

R: $-5 \leq y \leq 0$

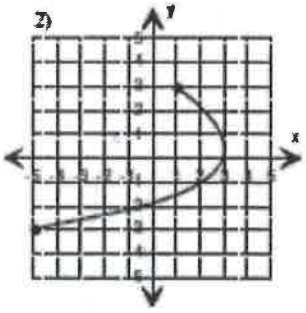
Determine the domain and range of the following in inequality form:



D: $-5 \leq x \leq 5$

R: $-5 \leq y \leq 6$

4. Determine the domain and range of the following using brackets.



oops

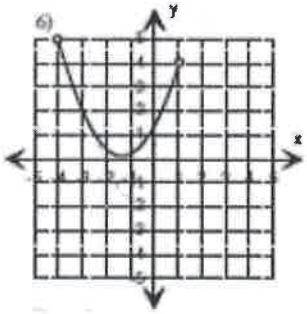
D: $-5 \leq x \leq 3$

R: $[-3, 3]$

D: $[-5, 3]$

R

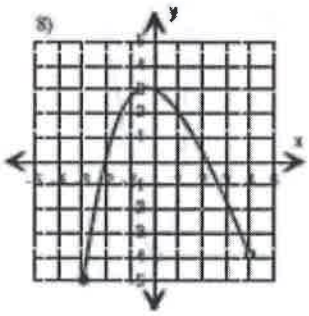
Determine the domain and range of the following using brackets:



D: ~~(-4, 1)~~

R: $[0, 5)$

Determine the domain and range of the following using brackets:



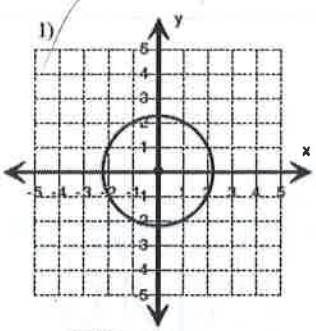
D: $[-3, 4)$

R: $[-5, 3]$

Name:_____BLOCK_____

5. Is this a function?

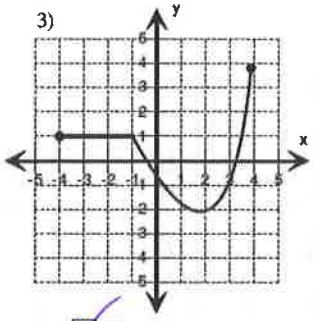
1)



☐ Function
☑ Not a Function

Is this a function?

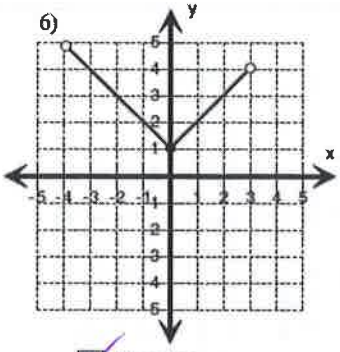
3)



☑ Function
☐ Not a Function

Is this a function?

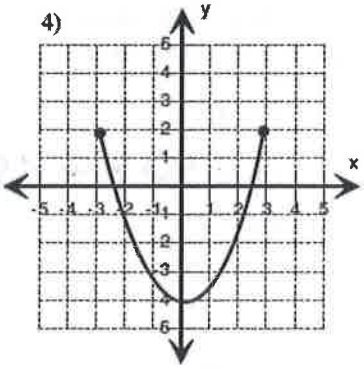
6)



☑ Function
☐ Not a Function

6. Determine the domain and range of the following.

4)

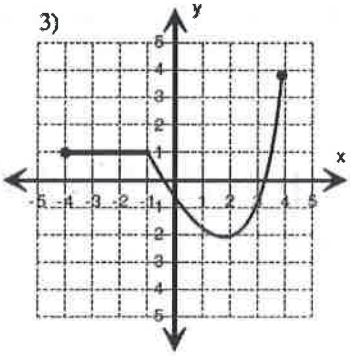


D: $-3 \le x \le 3$ or $[-3, 3]$

R: $-4 \le y \le 2$ or $[-4, 2]$

Determine the domain and range of the following.

3)

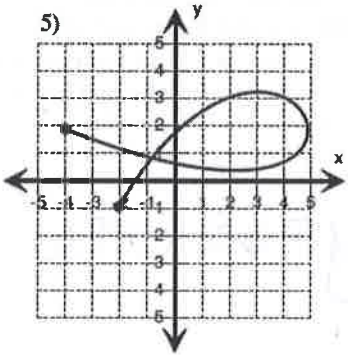


D: $-4 \le x \le 4$

R: $-2 \le y \le 4$

Determine the domain and range of the following.

5)



D: $-4 \le x \le 5$ or $[-4, 5]$

R: $-1 \le y \le 3\frac{1}{3}$ or $[-1, 3\frac{1}{3}]$

7. Find $f(-2)$ if $f(x) = 3x - 5$

$f(-2) = 3(-2) - 5$

$f(-2) = -11$

Find $f(-2)$ if $f(x) = -3x + 7$

$f(-2) = -3(-2) + 7$

$f(-2) = 13$

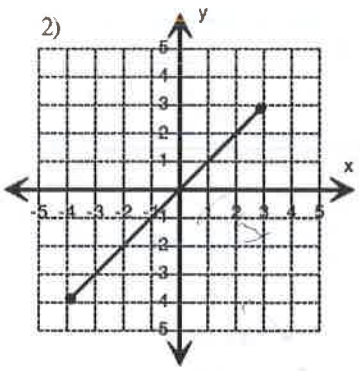
Find $f(3)$ if $f(x) = -2x - 5$

$f(3) = -2(3) - 5$

$f(3) = -11$

Name:_____BLOCK_____

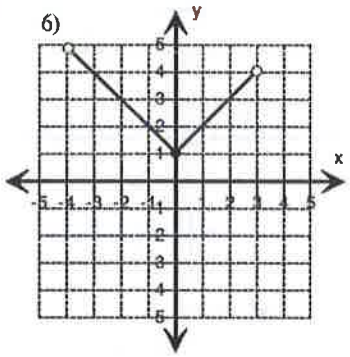
8. Given the following graph of $g(x)$ find $g(-2)$



$x=-2$

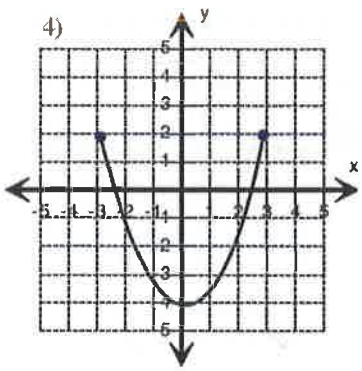
$g(-2)=-2$ $y=-2$

Given the following graph of $g(x)$ find $g(3)$



$g(3)=$ no sol

Given the following graph of $h(x)$ find $h(0)$



$h(0)=-4$

9. A plumber charges a flat fee of \$50 to make house calls and then also charges \$65 an hour for his services. Write an equation to represent this scenario.

$y=65x+50$

A cab driver charges \$3.50 to get into his car and then charges \$0.35 per k travelling. Write an equation to represent this scenario.

$y=0.35x+3.50$

A computer technician charges \$50 an hour plus a service fee of \$35 to make a house call. Write an equation to represent this scenario.

$y=50x+35$

10. What are the domain and range of the following equation?

$y=\sqrt{x-3}$

D: $x\geq 3$ $[-3,\infty)$

R: $y\geq 0$ $[0,\infty$

What are the domain and range of the following equation?

$y=2x^2$

D: $x=\mathbb{R}$

R: $y\geq 0$

What are the domain and range of the following equation?

$y=2x-7$

D: $x=\mathbb{R}$

R: $y=\mathbb{R}$