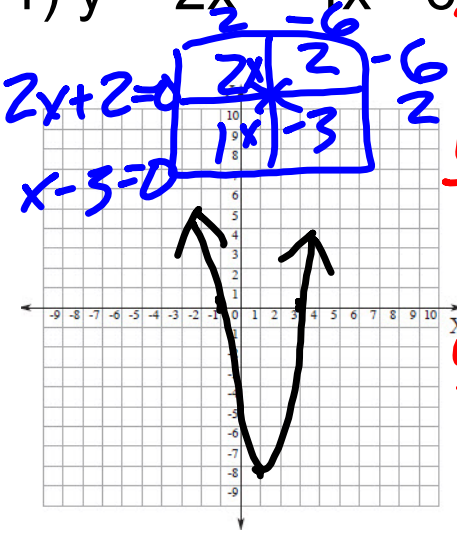
Warm up

Identify the vertex, axis of symmetry, and x intercepts then Graph it!

1) $y = 2x^2 - 4x - 6$



$x\text{-int} = 3, -1$

$\frac{-(-4) \pm \sqrt{(-4)^2 - 4(2)(-6)}}{2(2)}$

$\frac{4-8}{4} = -1$

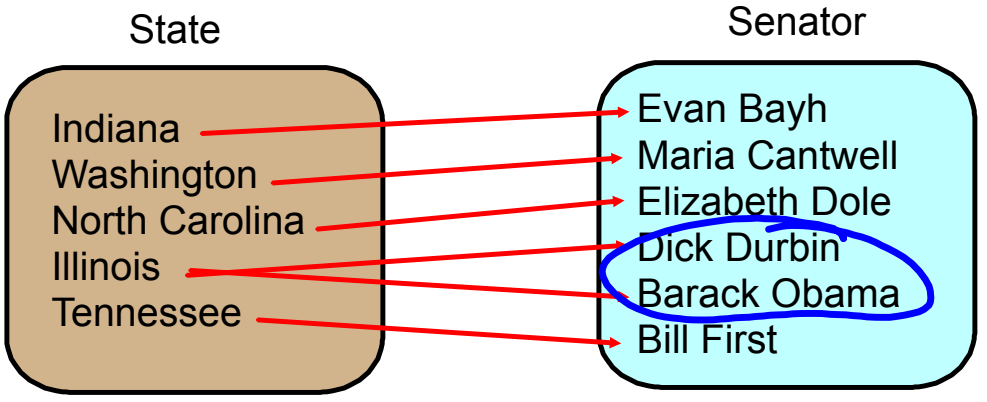
$\frac{4+8}{4} = 3$

Please pull out your Skills Sheet make sure it is filled out and put it on your desk I will collect it!!!

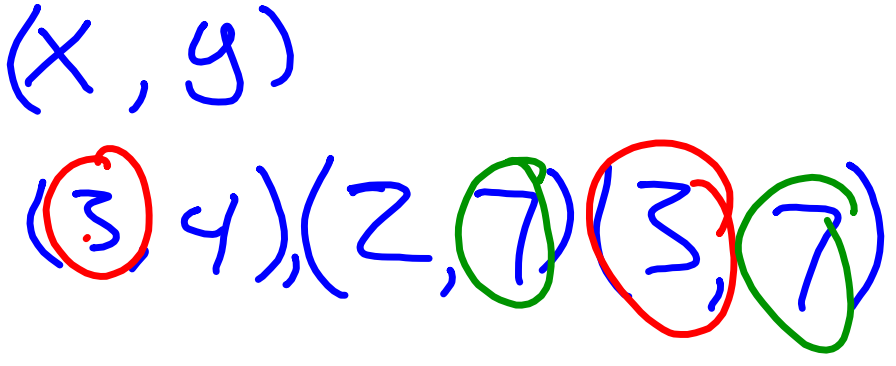
6.1 Evaluating Functions

- I can identify if the graph, the points, or the table, I am given is a function.
- I can evaluate a function at a given number.

If some one asked you who was the senator (not senators) of Illinois what would you say.



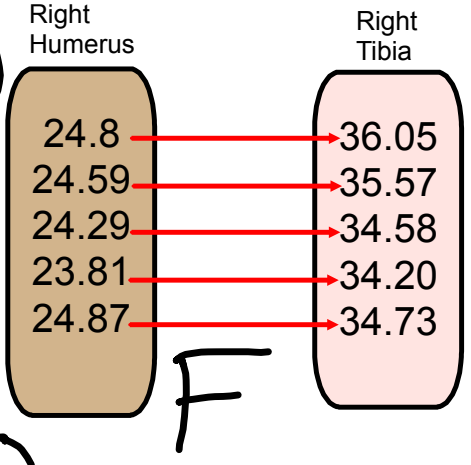
A **function** is a relation in which each element in the domain (the inputs) of the relation corresponds to exactly one element in the range (the outputs) of the relation.



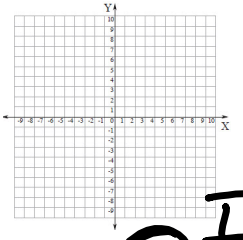
January 14, 2019

State whether each relation is a function.

1

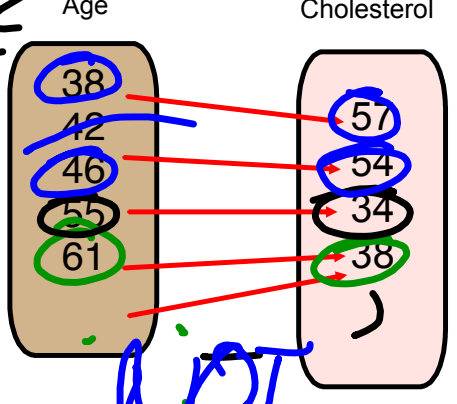


F



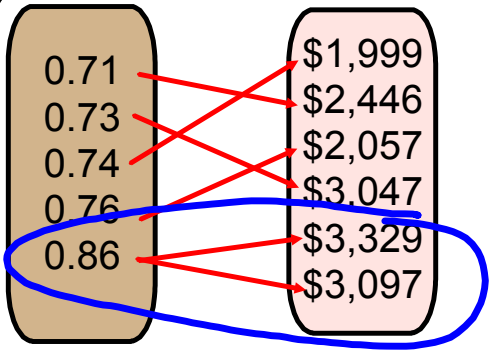
2

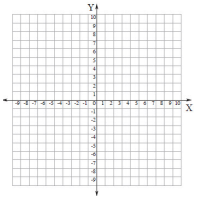
I

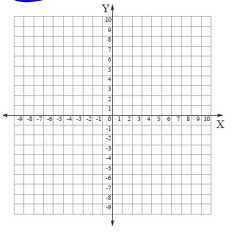


NOT

3

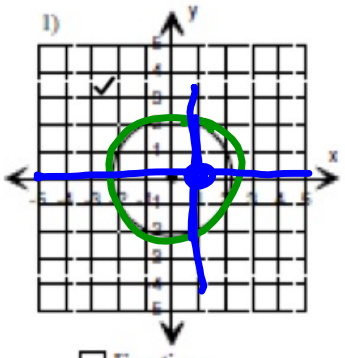






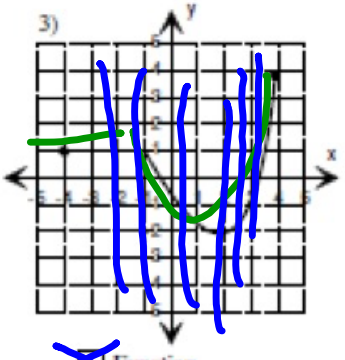
Identify if it is a function

1)



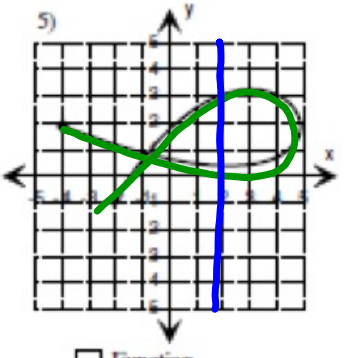
☐ Function
☒ Not a Function

3)



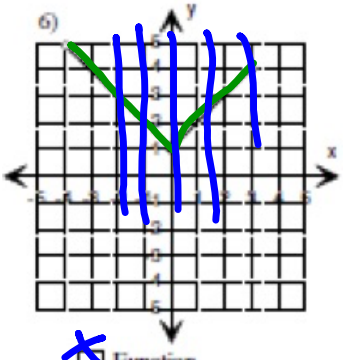
☒ Function
☐ Not a Function

5)



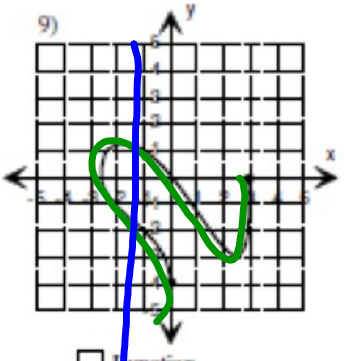
☐ Function
☒ Not a Function

6)



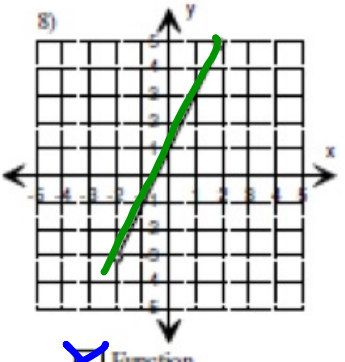
☒ Function
☐ Not a Function

9)



☐ Function
☒ Not a Function

8)



☒ Function
☐ Not a Function

Evaluate each function

$f(x)$	$3+2x$	$x-5$	$-3x+7$	$7x-8$	x^2
$f(-4)$	$3+2(-4)$ -5	$-4-5$ -9	$-3(-4)+7$ 19	$7(-4)-8$ -36	$(-4)^2$ 16
$f(-2)$	-1	-7	13	-22	4
$f(1)$	5	-4	4	-1	1
$f(3)$	9	-2	-2	13	9
$f(5)$	13	0	22	27	25

Evaluate each function

$f(x)$	$x-2$	$2x+3$	$3x^2+x$
$f(n+1)$	$(n+1)-2$ $n-1$	$2(n+1)+3$ $2n+2+3$ $2n+5$	$3(n+1)^2+(n+1)$ $3(n^2+2n+1)+n+1$ $3n^2+6n+3+n+1$ $3n^2+7n+4$
$f(3t)$	$3t-2$	$6t+3$	$3(3t)^2$ $3(9t^2)$ $27t^2$

Please empty your homework out of your bin!! :)