

Unit 3 Day 17
Do you remember... Unit 3?



PART I: Use $q(x) = 5x - 2$, $k(x) = x^2 - 3$, and $m(x) = |8x - 1|$ to answer the questions below.

1. $q(10) = 5(10) - 2 = 50 - 2 = 48$
 $q(10) = 48$
2. $m(-5) = |8(-5) - 1| = |-40 - 1| = |-41| = 41$
 $m(-5) = 41$
3. $k(-2) = (-2)^2 - 3 = 4 - 3 = 1$
 $k(-2) = 1$
4. Find x when $q(x) = -7$
 $-7 = 5x - 2$
 $-5 = 5x$
 $x = -1$

PART II: Use the table below to evaluate the following:

x	$f(x)$	$g(x)$	$h(x)$
-1	2	3	-1
0	0	2	1
1	1	1	3
2	0	-1	5
3	2	-1	7

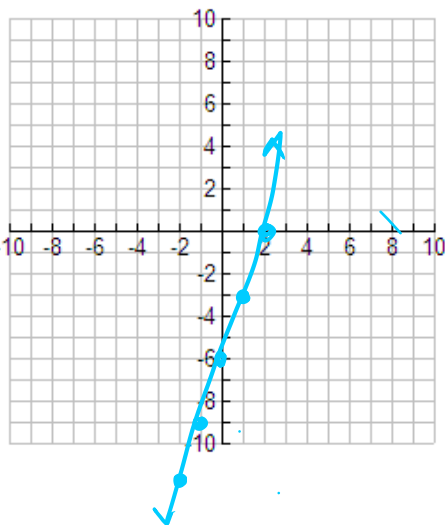
5. $g(2) = -1$
6. $f(0) = 0$
7. Find x when $h(x) = 5$ $x = 2$

PART III: Graph the function using a table.

8. $f(x)$: triple the input and then subtract 6

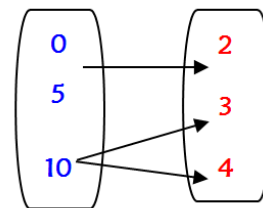
Function: $f(x) = 3x - 6$

x	$f(x)$
-2	-12
-1	-9
0	-6
1	-3
2	0



PART IV: Is it a function?

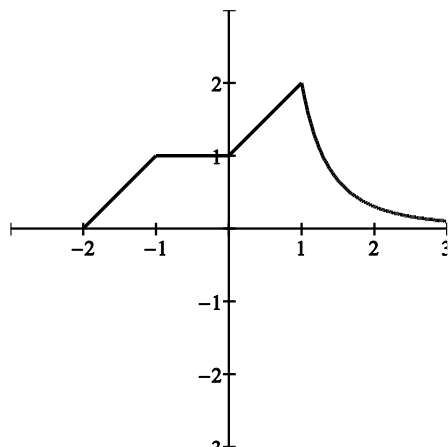
9. Input Output



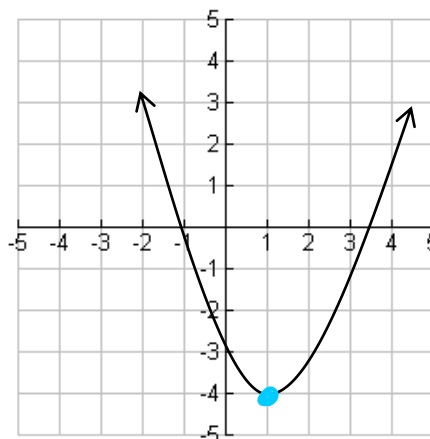
NO!

10 has more than 2 outputs

PART V: Use the graph to evaluate.



PART VI: Domain, Range, End Behavior.



10. $a(-2) = 0$

11. $a(0) = 1$

	<i>Inequality</i>	<i>Interval</i>
Domain:	\mathbb{R}	$(-\infty, \infty)$
Range:	$y \geq -4$	$[-4, \infty)$
Function?	<input checked="" type="radio"/> YES or NO	(circle one)
As $x \rightarrow -\infty$, $y \rightarrow$	∞	
As $x \rightarrow \infty$, $y \rightarrow$	∞	

Self Reflect

What topic was most confusing?

What topic was easiest to remember?

What is my plan to prepare for the Unit 3 Test?

What is my plan to start preparing for the final exam?