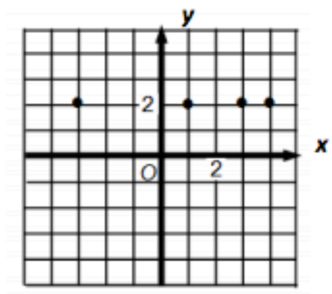
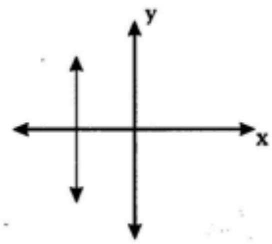
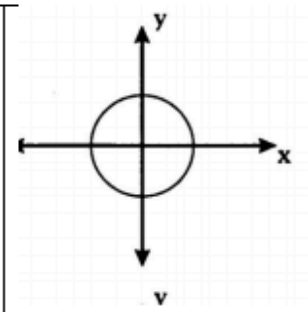
7.2 CA Intro to Functions

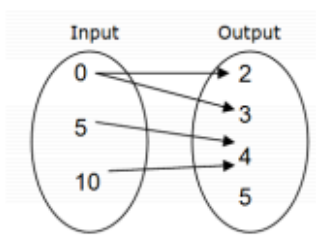
Name: ____________________

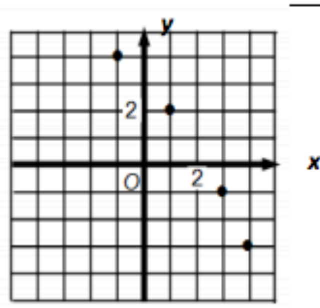
State whether each graph/table/mapping represents a function or not.

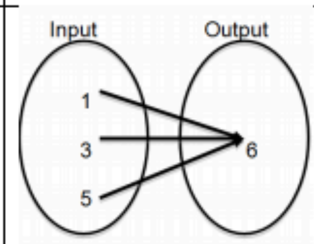




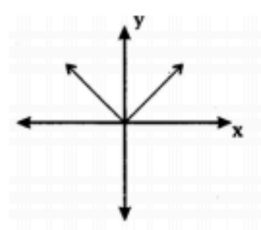


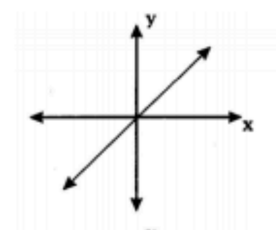




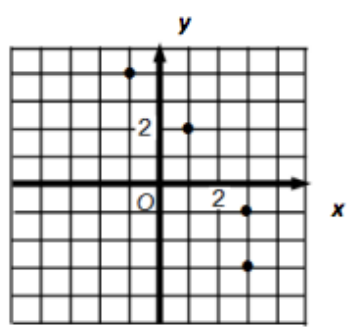


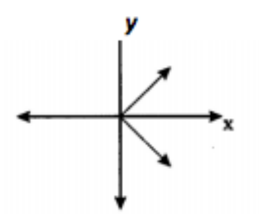
x	−1	2	5
y	−4	8	20





{-1, 5), (2, 5), (3, 5) (8, 5)}





Evaluate each function.

1) $g(n) = 2n - 5$; Find $g(2)$

2) $g(n) = -n - 5$; Find $g(-10)$

3) $f(x) = x - 3$; Find $f(10)$

4) $f(x) = 4x - 3$; Find $f(-3)$

5) $f(a) = a + 4$; Find $f(-3)$

6) $p(x) = 4x + 4$; Find $p(2)$

7) $f(x) = 8 - 3x$, Find x when $f(x) = 32$

8) $h(x) = 2x + 5$, Find x when $h(x) = 30$

9) $f(x) = 10 + \frac{x}{4}$, Find x when $f(x) = -2$

10) $h(x) = -3 - 4x$, Find x when $h(x) = 14$

Fill in the table

11.

$f(x) = 12 - 3x$

x	f(x)
-5	
4	
	21

12.

$f(x) = 2x - 7$

x	f(x)
-5	
4	
	-3

13.

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

x	f(x)
-5	
4	
	0

14.	15.	16.
$f(x) = \frac{x}{2} + 4$	$f(x) = -3x - 9$	$f(x) = 2(4x - 5)$

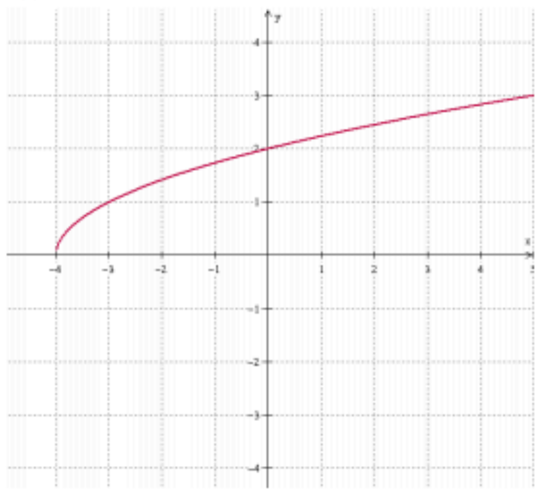
x	f(x)
-6	
4	
	12

x	f(x)
-5	
4	
	-3

x	f(x)
-5	
4	
	2

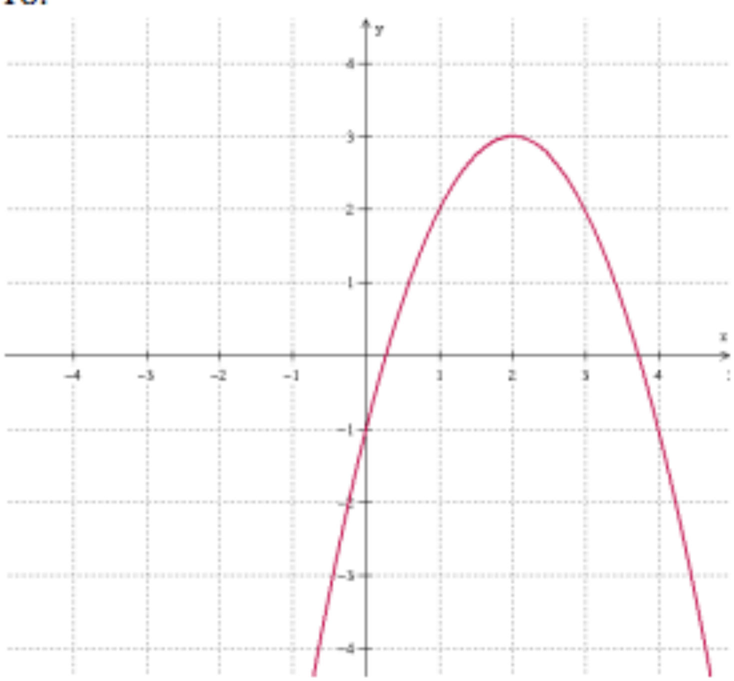
Use the graph to answer the following:

17.



x	f(x)
0	
-4	
5	
	1

18.



x	f(x)
0	
1	
3	
	3

Answers:

Yes, No, No, No, Yes, Yes, Yes, No, Yes

1. -1	2. 5	3. 7	4. -15	5. 1
6. 12	7. -8	8. $\frac{25}{2} = 12.5$	9. -48	10. $-\frac{17}{4} = -4.25$

11.

x	$f(x)$
-5	27
4	0
-3	19

12.

x	$f(x)$
-5	-17
4	1
2	-3

13.

x	$f(x)$
-5	10
4	17
$-\frac{5}{3}$	0

14.

x	$f(x)$
-6	1
4	6
16	12

15.

x	$f(x)$
-5	6
4	-21
-2	-3

16.

x	$f(x)$
-5	-50
4	22
$\frac{3}{2}$	2

17.

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

18.

x	$f(x)$
0	-1
1	2
3	2
2	3