Objective 2 Unit 13 Remediation

- To determine if a relation is a function given ordered pairs, a graph, or a table.

Function- is a pairing between 2 sets of numbers in which each input has exactly 1 output.

- Each x has only one y-value.

Example1

{(1,4), (2,5), (3,6), (4,7)}

Function? Yes, because the x-values do not repeat.

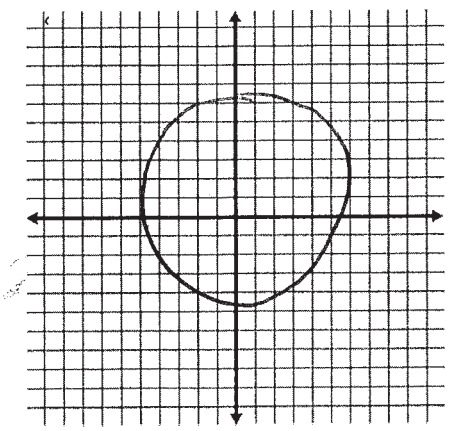
Example 2

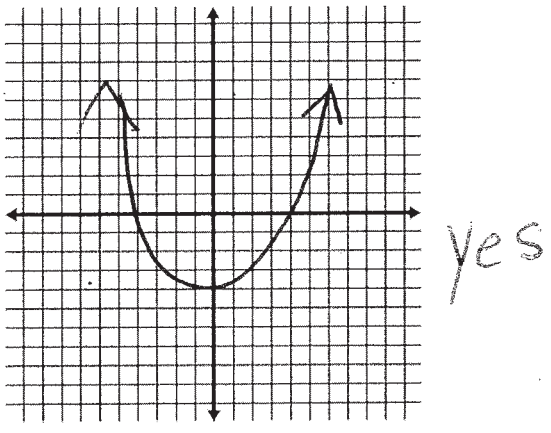
x	**-2**	**3**	**5**	**-2**
y	**6**	**8**	**9**	**10**

Function? No, because -2 repeats as an x-value.

How to determine whether a relation (a pairing between 2 sets of numbers) is a function from a graph: **Vertical Line Test**

- Use your pencil and drag it across the graph along the x-axis
- If the pencil hits the graph in more than I place then it is NOT a function.





Objective 2

What Did Farmer John Show His Chicken When She Wouldn't Lay Any Eggs?

Determine whether each relation is a function. Indicate whether it "is a function" or is "not a function" by circling the appropriate letter in the chart. The answer to the title question is found by reading the circled letters in the top row, then the circled letters in the bottom row.

1 $\{(-1, 8), (0, 15), (1, -4), (2, 0)\}$

2 $\{(-2, 7), (6, 2), (-2, -3), (0, 9)\}$

3 $\{(-5, 2), (5, 2), (0, -3), (3, -8), (-7, 4), (-1, -1)\}$

4 $\{(-7, 2), (4, -6), (2, -2), (-3, 9), (0, -11), (4, 0)\}$

5

x	y
−6	4
−4	0
−2	−5
0	−5
2	0
4	4

6

x	y
8	7
−3	16
−9	0
15	33
−1	−1
−9	−6

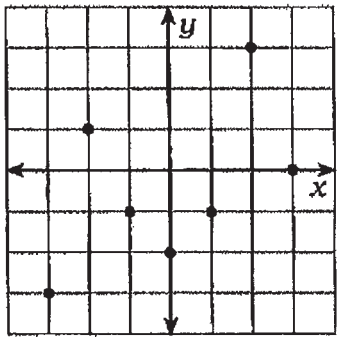
7

x	y
5	18
−2	−2
0	12
12	0
−40	17
−5	18

8

x	y
−1	75
0	80
1	85
0	90
−1	95

9



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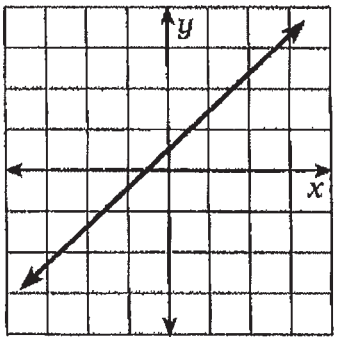

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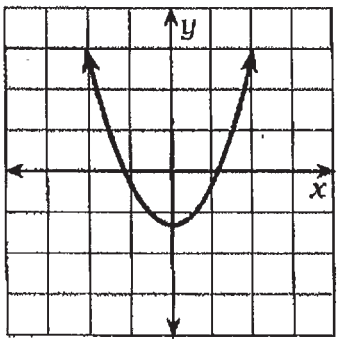

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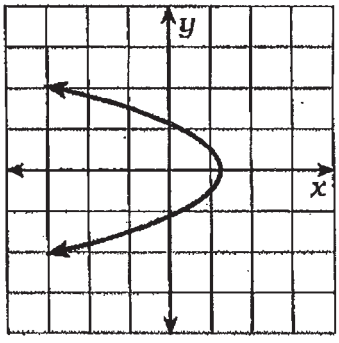

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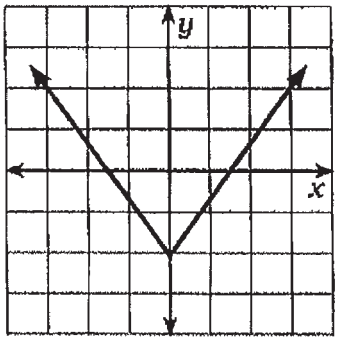

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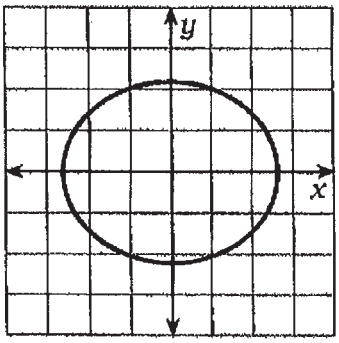

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
IS A FUNCTION >	A	R	G	E	O	L	O	F	D	E	G	O	G	G
NOT A FUNCTION >	I	S	T	A	T	M	E	P	O	L	A	L	L	E