ALGEBRA

Relations and Functions

Period: ____

Is each relation a function? Use a mapping diagram. Explain your answer.

1. {(4, 7), (9, 11), (4, 6), (10, 2)}

2. $\{(-5, -8), (2, 4), (3, 4), (-6, -8)\}$

Is it a function?

Is it a function?

Explain:

Explain:

Identify which of the following graphs are NOT functions.

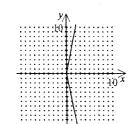
Answer(s): ______. (there may be more than one!)

3. [A]

[B]

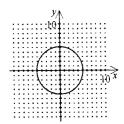
[C]

[D]



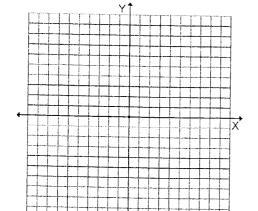
10

10 10 x

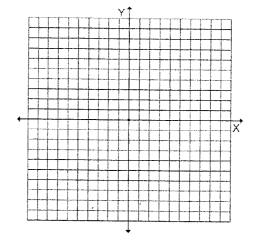


Is each relation a function? Use the vertical line test. Explain your answer.

4. {(2, 5), (-3, 5), (0, 5), (3, 5)}

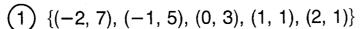


5. {(-1, -9), (1, 3), (-1, 9), (6, 6)}



What Did the Baby Porcupine Say When It Backed Into a Cactus?

Determine which of the relations below are functions. Find the number of each relation that is a function at the bottom of the page and cross out the letter below it. When you finish, the answer to the title question will remain.



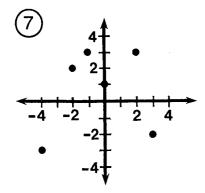
$$(2)$$
 {(-7, 20), (3, 5), (0, 5), (-2, 0), (6, -4), (-6, -9), (4, 4)}

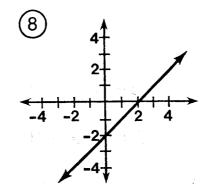
$$(3)$$
 {(4, 8), (-3, -2), (9, 6), (2, -1), (-4, -5), (2, 7), (-8, 0)}

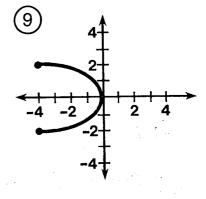
_		
4	X	y
	0	-19
	1	-12
	2	-4
	3	3
	4	13
	5	27

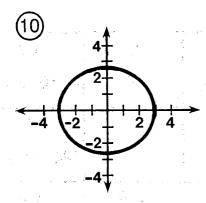
(5)	X	у			
	- 5	8			
	-3	8			
	-1	-2			
	1	-2			
	3	11			
	5	23			

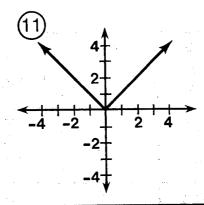
6)	X	y
	-2	- 7
	-2	5
	0	-16
	2	0
	2	6

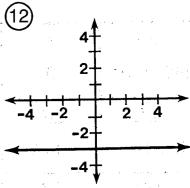












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