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.

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

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

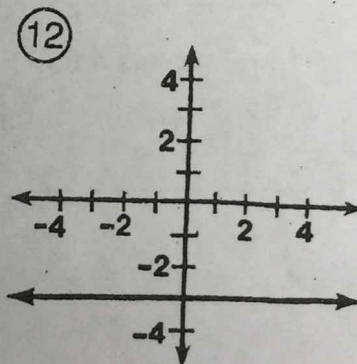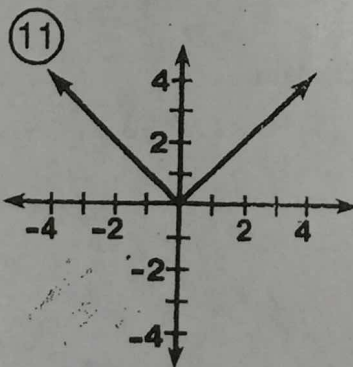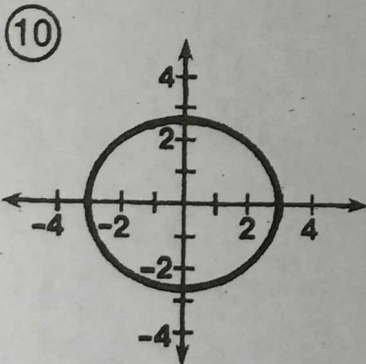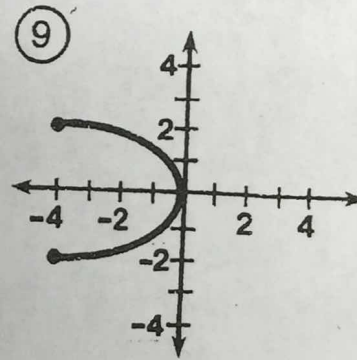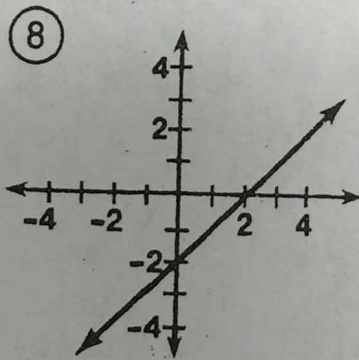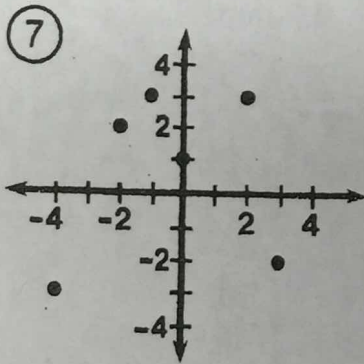(3) $\{(4, 8), (-3, -2), (9, 6), (2, -1), (-4, -5), (2, 7), (-8, 0)\}$

(4)

x	y
0	−19
1	−12
2	−4
3	3
4	13
5	27

(5)

x	y
−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

(7)

(8)

(9)

(10)

(11)

(12)

5	12	10	7	1	3	9	11	2	4	6	8
F	O	O	H	A	S	M	T	O	P	A	D

OBJECTIVE 1–a: To determine whether or not a relation is a function

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LESSON 3C Homework and Practice
Relations and Functions

Write the domain and range for each relation.

1. relation: {(0, 4), (1, 5), (2, 6)}

domain: _____

range: _____

2. relation: {(−3, 6), (−2, 3), (−1, 0)}

domain: _____

range: _____

Tell if each relation is a function. Explain.

3.

domain   range

m → 1
n → 0

_____

_____

4.

domain   range

d → 4
e → 10
f → 12

_____

_____

5.

domain   range

a → −3
b → −3

_____

_____

6.

domain   range

−1 → c, d
0 → c
1 → c, d

_____

_____

Tell if each relation is a function. Explain.

7. {(1, 4), (2, 7), (1, 10), (3, 0)}

_____

_____

8. {(−3, 2), (−2, 2), (−1, 2), (0, 2)}

_____

_____

Holt Mathematics