

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

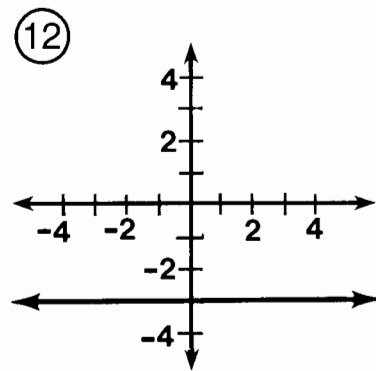
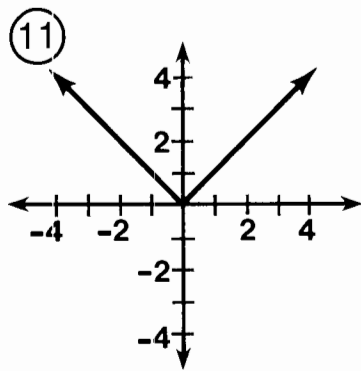
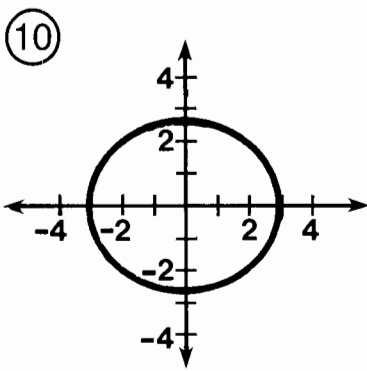
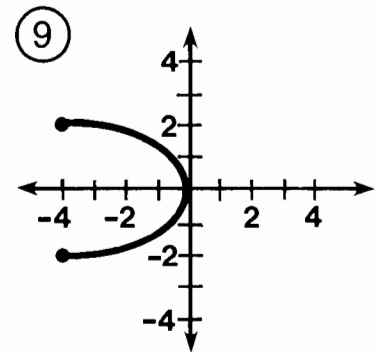
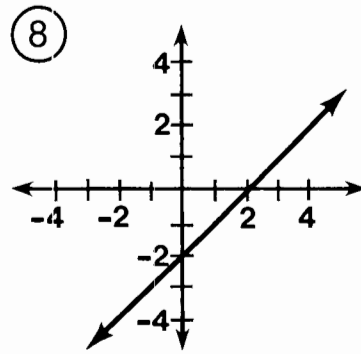
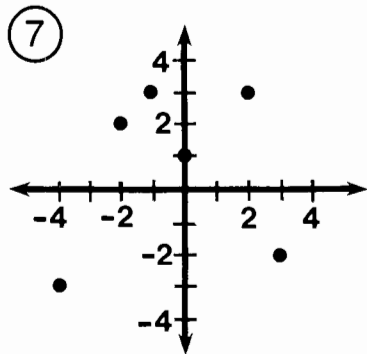
x	y
0	-19
1	-12
2	-4
3	3
4	13
5	27

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



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

What Did They Call the Duck Who Became a Test Pilot?

Follow the directions given for each section. Cross out each box in the rectangle below that contains a correct answer. When you finish, print the letters from the remaining boxes in the spaces at the bottom of the page.

I For each function, find the indicated values.

- ① $f(x) = 2x - 5$ A. $f(6)$ B. $f(1)$
 ② $f(x) = x^2 - 4$ A. $f(12)$ B. $f(-2)$
 ③ $g(x) = x^2 - 7x + 1$ A. $g(3)$ B. $g(0)$
 ④ $h(x) = \frac{x+3}{x^2+x-6}$ A. $h(4)$ B. $h(-1)$

II Find the range of each function for the given domain.

- ⑤ $f(x) = 3x + 2$ $D = \{-2, 0, 2\}$
 ⑥ $g(x) = 9 - 5x$ $D = \{-3, -1, 1\}$
 ⑦ $F(x) = 2x^2 - 1$ $D = \{5, 1, -4\}$
 ⑧ $h(x) = x^2 - 8x + 3$ $D = \{1, 0, -1\}$
 ⑨ $f(t) = \frac{t^2 + 4t}{t - 6}$ $D = \{4, 0, -4\}$
 ⑩ $G(n) = -n^2 + 2n + 3$ $D = \{-2, 1, 4\}$

SK {49, 1, 31}	Y 0	S $\frac{1}{2}$	AF {49, -1, 9}	E {-16, 0}	IL 7	LY {-16, 8, -2}
BE {24, 14, 4}	ER {-5, 0}	ST {-5, 4}	QU $-\frac{3}{2}$	IT $-\frac{1}{3}$	I -3	A {24, 14, -7}
DU -11	CK {-4, 7, 12}	MB 140	IN {-4, 2, 8}	H {-4, 3, 12}	ER {-4, 2, -1}	UP 1