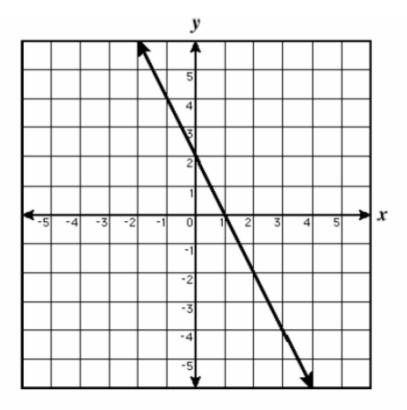
Algebra Quick Quiz

Question 1.

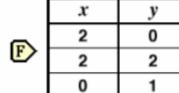
Which of the following tables represents a function?

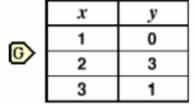
	x	У		x	у
F	4	-2	⑤	1	-2
	4	0		0	0
	4	2		1	2
	4	4		4	3
H>	x	у		x	у
	-1	1		2	-4
	0	0	(I)	0	2
	1	1		2	6
	1	1	0 3	_	

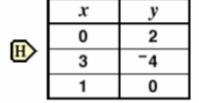
Question 2.

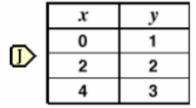


Which table most likely matches this graph?









Question. 3.

These ordered pairs follow a pattern. If (10, y) is in this pattern, what is the value of y?





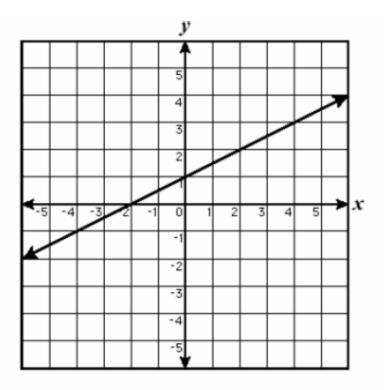
Question 4.

x	у
0	⁻ 5
2	-3
-2	-7
4	-1
-4	-9

Using the same relationship between x and y as the table, what is the value of y when x is 8?

What is the domain of the set of ordered pairs $\{(-5, -4), (-4, 4), (2, 3), (4, 5)\}$?

Question 6.

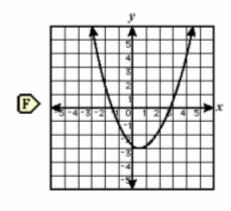


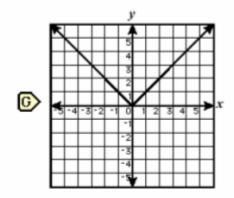
What is the domain of the function shown above?

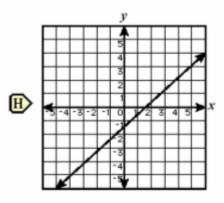
- F All integers
- G All real numbers
- All natural numbers
- All whole numbers

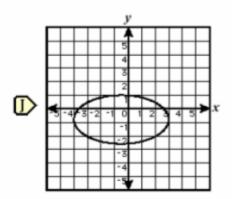
Question 7.

Which of the following is not a graph of a function?







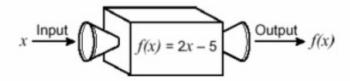


Question 8.

What is the range of the function f(x) = 5 - 8x when the domain is $\{-2, 2, 4\}$?

- F> {-27, -11}
- **(**-27, -11, 21)
- H {-2, 2, 4}
- []> {1/8, 3/8, 7/8}

Question 9.



Using the function machine in the diagram, what is the output when 12 is input?

- F 7
- G> 8.5
- H 19
- J 29

Question 10.

If f(x) = (2/3)x - 6, what is f(12)?

- F 2
- **G**> 8
- H 14
- J) 27

Bonus

Find the zeros of $f(x) = (x - 3)^2 - 49$, algebraically.