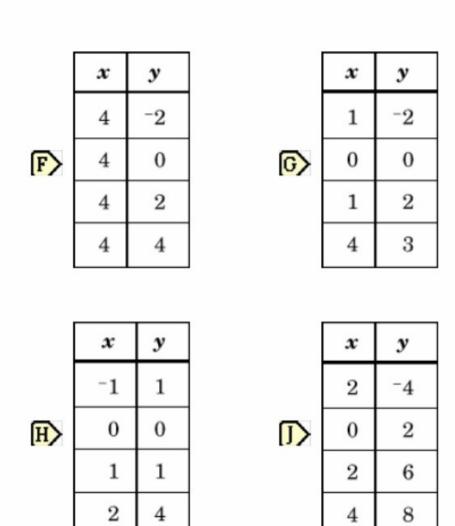
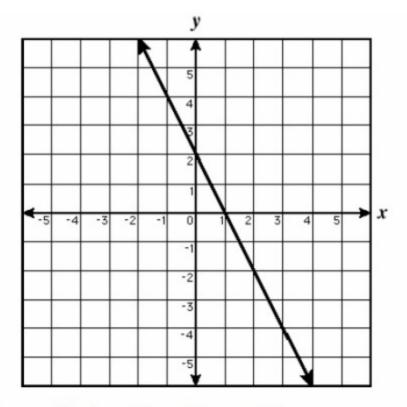
Algebra Quick Quiz

Question 1.

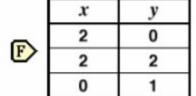
Which of the following tables represents a function?



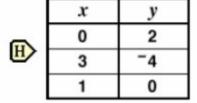
Question 2.

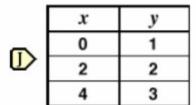


Which table most likely matches this graph?









Question. 3.

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

- F 1
- **G**> 2
- H> 3
- 4

Question 4.

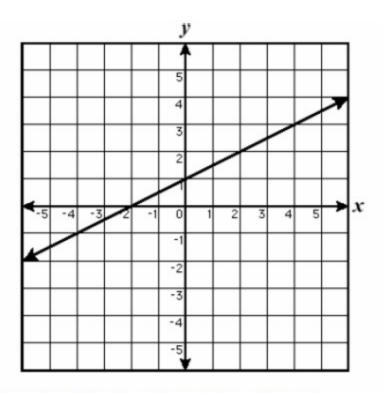
x	у
0	⁻ 5
2	-3
-2	-7
4	-1
-4	-9

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

- F> -1
- **©** 2
- H 3
- 5

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

Question 6.

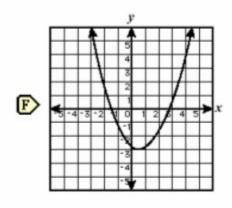


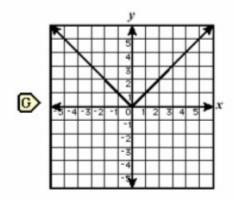
What is the domain of the function shown above?

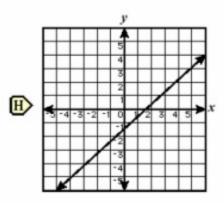
- F All integers
- G All real numbers
- H All natural numbers
- All whole numbers

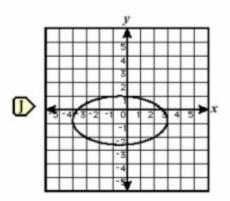
Question 7.

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







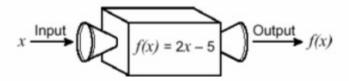


Question 8.

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

- F> {-27, -11}
- G {-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
- []> 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.