October 20, 2023

Algebra 1 Quick Quiz

Question 1.

Which of the following tables represents a function?

F

x	y
4	-2
4	0
4	2
4	4

G

x	y
1	-2
0	0
1	2
4	3

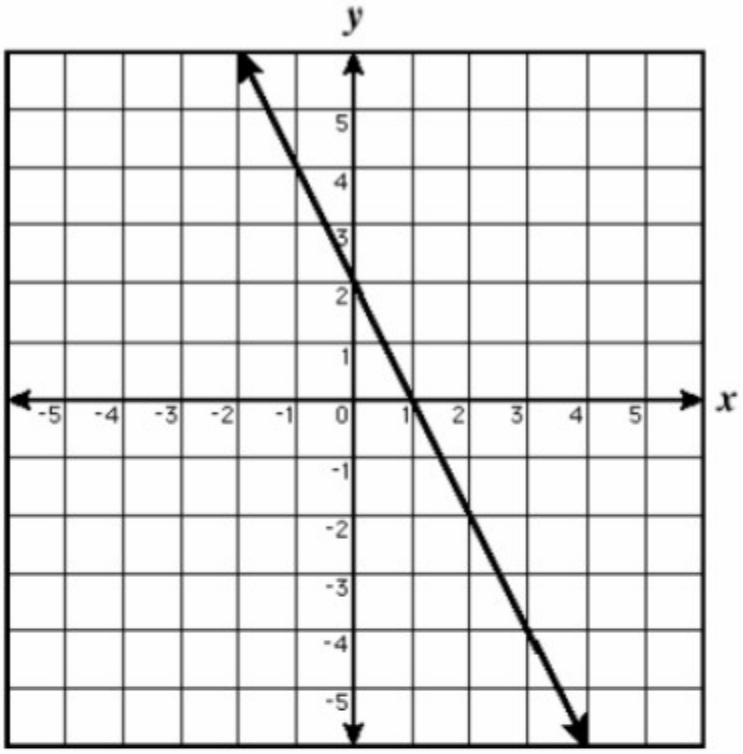
H

x	y
-1	1
0	0
1	1
2	4

J

x	y
2	-4
0	2
2	6
4	8

Question 2.



Which table most likely matches this graph?

F

x	y
2	0
2	2
0	1

G

x	y
1	0
2	3
3	1

H

x	y
0	2
3	−4
1	0

J

x	y
0	1
2	2
4	3

Question. 3.

(0, -3), (2, -2), (4, -1), (6, 0),...

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
J 4

Question 4.

x	y
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?

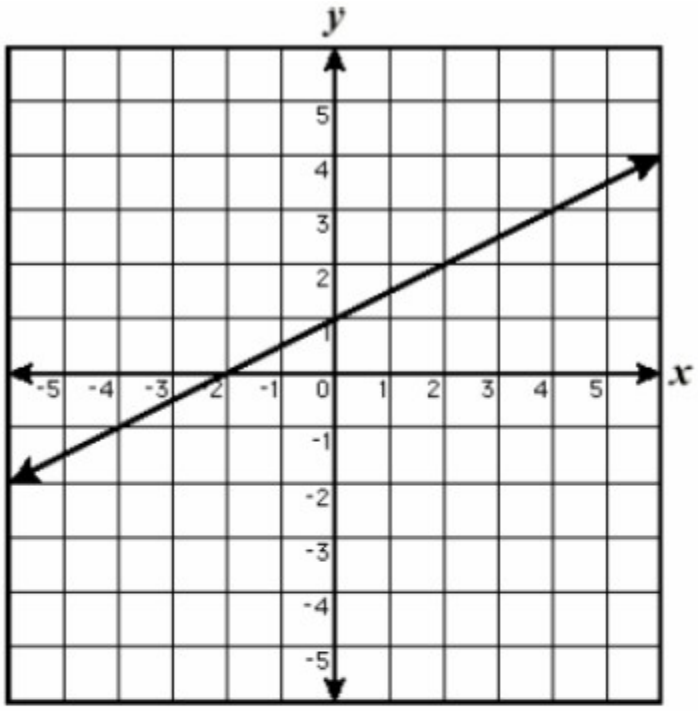
F -1
G 2
H 3
J 5

5.

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

F {-5, -4, 2, 4}
G {-4, 3, 4, 5}
H {-5, -4, 4, 5}
J {-5, 2, 3, 4}

Question 6.



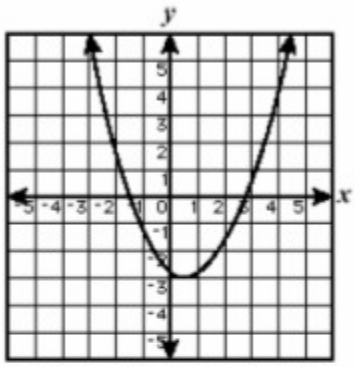
What is the domain of the function shown above?

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

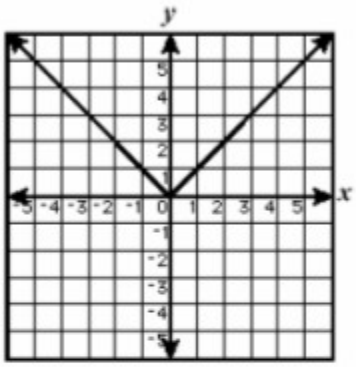
Question 7.

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

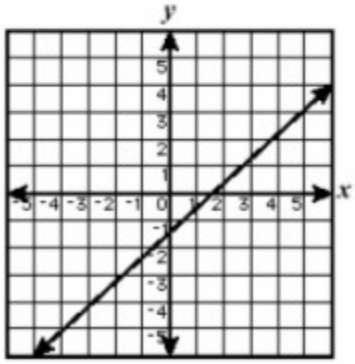
F



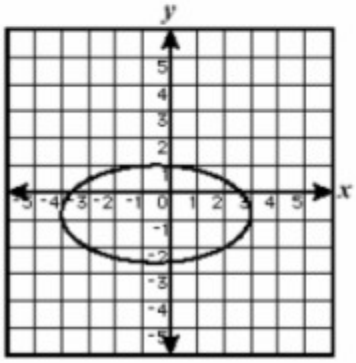
G



H



J



Question 8.

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

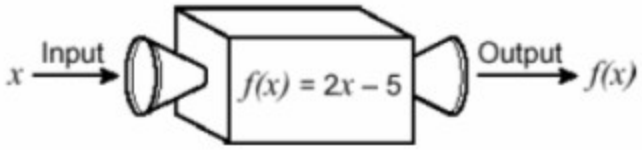
F {-27, -11}

G {-27, -11, 21}

H {-2, 2, 4}

J {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

Question 11.
Bonus

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