

Question Number 1 of 40 - Algebra I

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

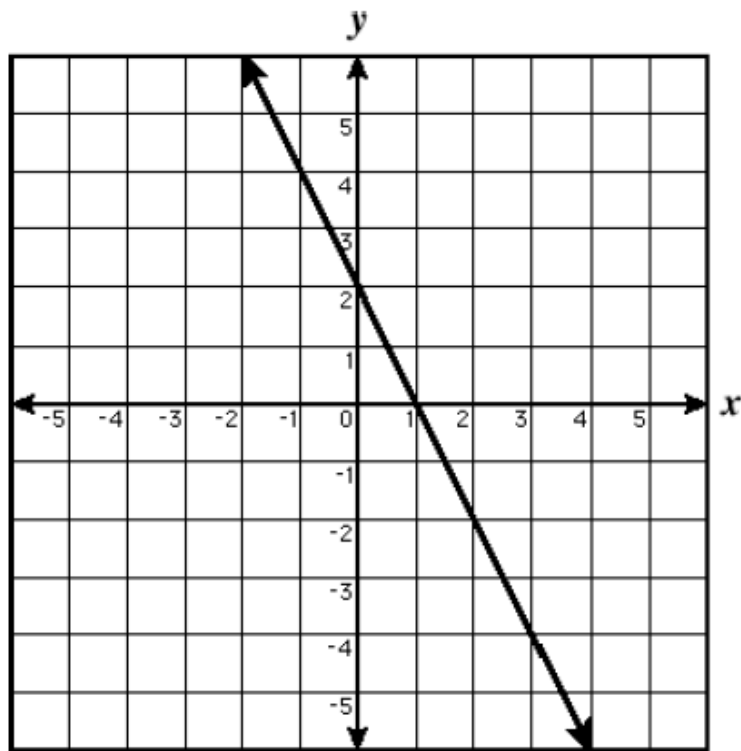
H

x	y
-1	1
0	0
1	1
2	4

J

x	y
2	-4
0	2
2	6
4	8

Question Number 2 of 40 - Algebra I



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 Number 3 of 40 - Algebra I

$(0, -3), (2, -2), (4, -1), (6, 0), \dots$

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 Number 4 of 40 - Algebra I

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

Question Number 5 of 40 - Algebra I

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

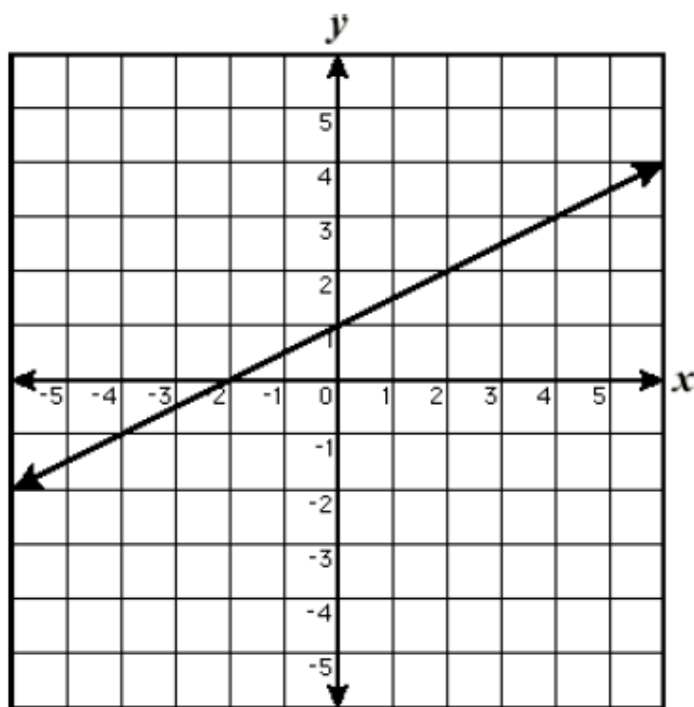
F $\{-5, -4, 2, 4\}$

G $\{-4, 3, 4, 5\}$

H $\{-5, -4, 4, 5\}$

I $\{-5, 2, 3, 4\}$

Question Number 6 of 40 - Algebra I

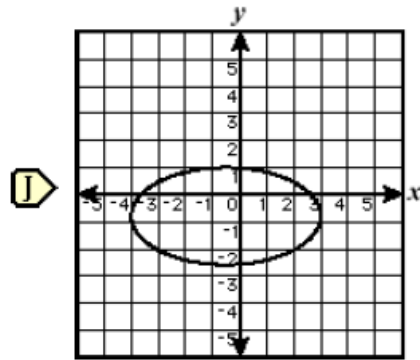
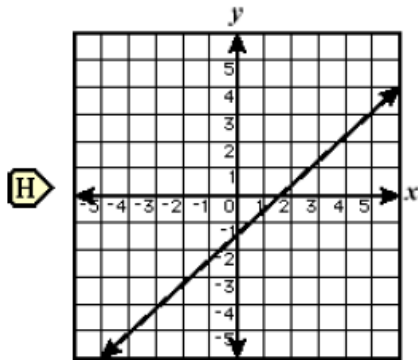
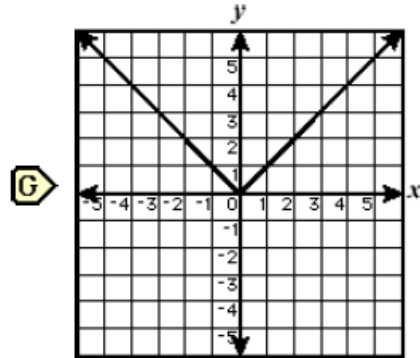
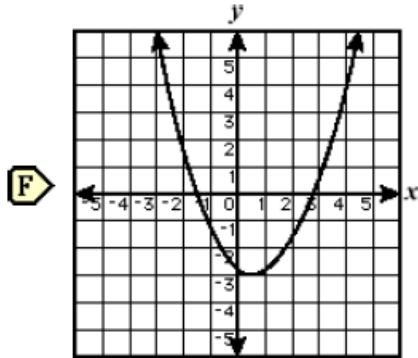


What is the domain of the function shown above?

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

Question Number 7 of 40 - Algebra I

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

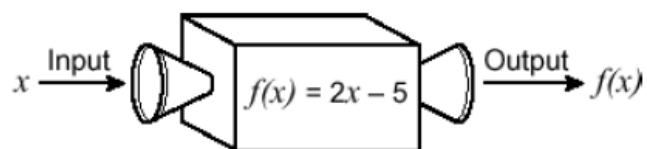


Question Number 8 of 40 - Algebra I

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 Number 9 of 40 - Algebra I



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 Number 10 of 40 - Algebra I

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

F 2

G 8

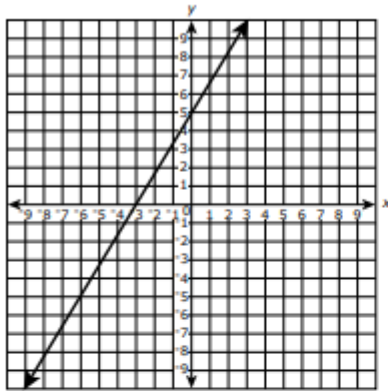
H 14

J 27

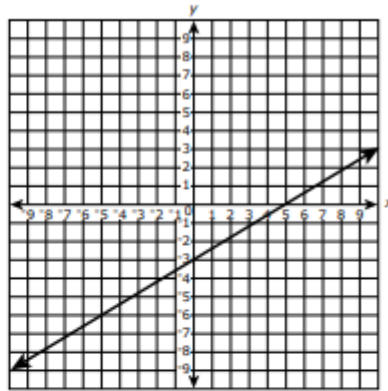
Bonus
Question 11.

Which graph represents the equation $5y - 3x = -15$?

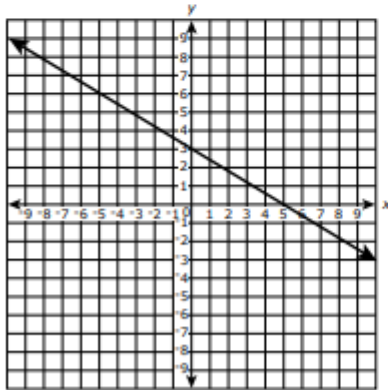
A.



B.



C.



D.

