

Algebra 1 Quick Quiz 11152022

Question 1.

Which of the following tables does **not** represent a function?

F

x	$f(x)$
2	7
3	10
5	16
8	25

G

x	$f(x)$
1	2
7	2
-4	2
-5	2

H

x	$f(x)$
36	6
36	-6
25	5
25	-5

I

x	$f(x)$
0	36
2	38
9	45
20	56

Question 2

x	y
0	4
3	1
6	-2

Which equation **most** likely describes the relation indicated by the table?

F $y = x + 4$

G $y = x - 2$

H $y = -x + 4$

J $y = -x - 8$

Question 3.

The table shows the relationship between the cost, c , in dollars of a taxi ride and the number, t , of minutes the ride lasts.

t	5	10	15	20
c	4.75	6.5	8.25	10

Which equation algebraically represents this data?

F $c = 3 + 0.35t$

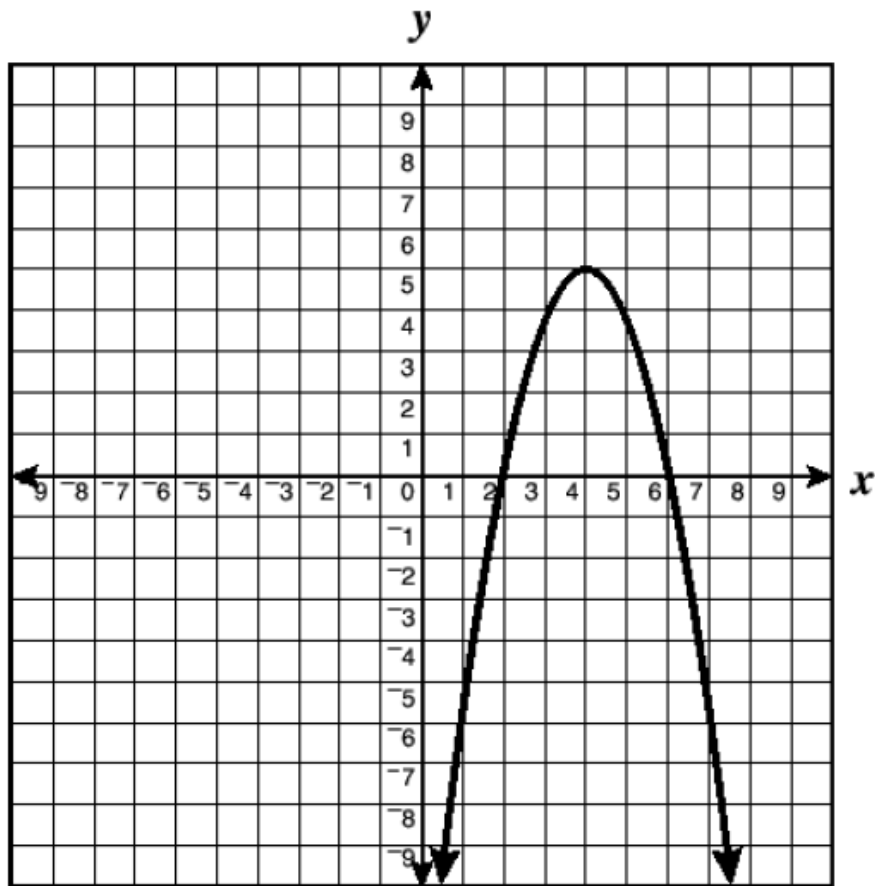
G $c = 2.75 + 0.5t$

H $c = t - 0.25$

J $c = 4 + 0.15t$

Question 4.

The graph shows part of a function f .



What is the range of the function?

- F All real numbers
- G All real numbers less than or equal to five
- H All real numbers greater than zero
- I All real numbers between 2 and 6

Question 5.

In which table are all the points represented by the equation $y = (-x/4) + 2$?

F

x	0	2	6	8
y	2	1	$\frac{1}{2}$	0

G

x	0	4	6	8
y	2	1	$\frac{1}{2}$	0

H

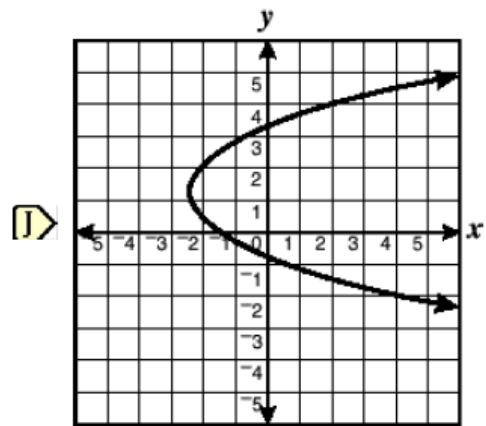
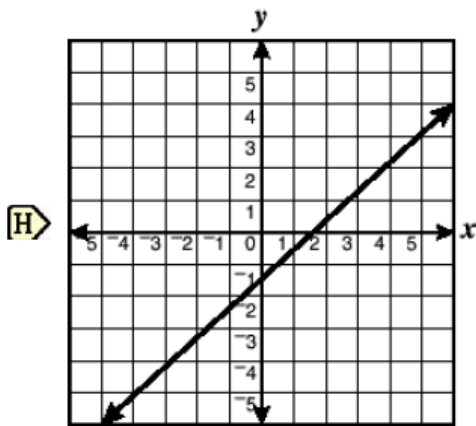
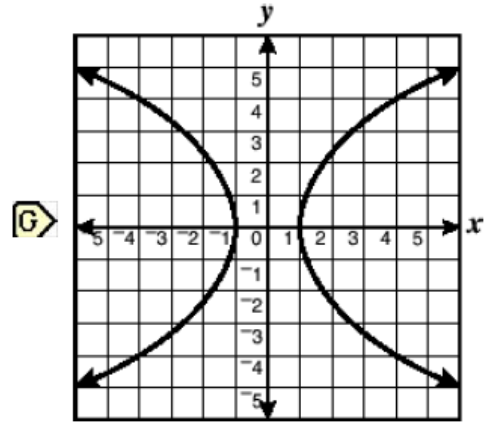
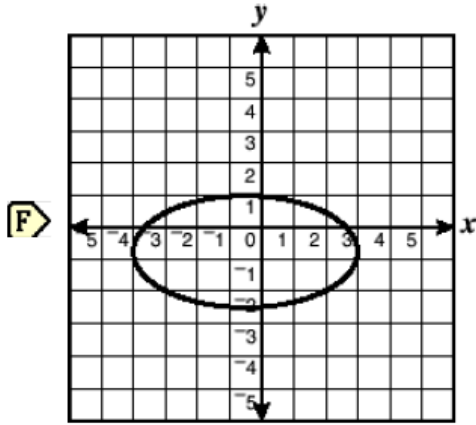
x	0	4	6	8
y	2	1	0	-1

J

x	0	2	4	6
y	2	1	0	$-\frac{1}{2}$

Question 6.

Which of the following represents the graph of a function?



Question 7.

Which of the following sets of ordered pairs is a function?

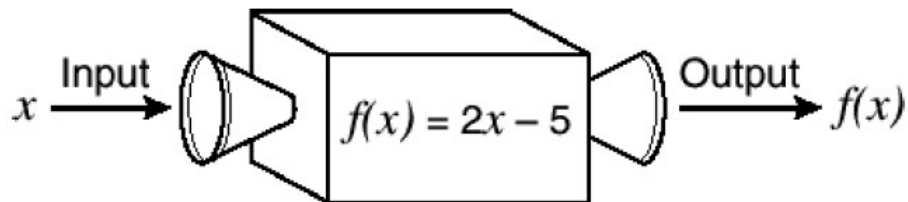
F $\{(2, 1), (2, 2), (3, 4), (5, 6)\}$

G $\{(-2, -1), (1, 2), (3, 4), (1, 5)\}$

H $\{(1, 2), (2, 2), (3, 3), (2, 4)\}$

J $\{(1, 1), (2, 1), (3, 2), (4, 4)\}$

Question 8.



Using the function machine from the diagram, what is $f(10)$?

F 5

G 7.5

H 15

J 25

Question 9.

Which is a zero of the function $f(x) = x^2 + 3x - 4$?

F -4

G -1

H 3

J 4

Question 10.

What is the range of the function $f(x) = (1/2)x + 5$ when the domain is {2, 4, 6}?

F {-6, -2, 2}

G {6, 7, 8}

H {2, 4, 6}

J {1, 3, 5}

Question 11.

Bonus

If $f(x) = \frac{3x+4}{2}$, then $f(8)$ is

(1) 21

(3) 14

(2) 16

(4) 4