8.5G Identify Functions Using Sets of Ordered Pairs, Tables, Mappings, and Graphs

GO ON

1 Which set of ordered pairs does show y as a function of x?

A {(-1, 2), (0, 3), (1, 4), (2, 5), (3, 6)}

B {(1, 2), (1, 3), (1, 4), (1, 5), (1, 6)}

C {(0, 1), (0, 2), (0, 3), (0, 4), (0, 5)}

D {(-2, 2), (-1, 2), (0, 2), (-1, 2), (-2, 2)}

GO ON

2 The set of ordered pairs shows a relationship between x and y.

$$\{(-3, 2), (-2, 2), (2, -3), (3, -2)\}$$

Which statement is true for the set of ordered pairs?

F y is not a function of x, since there are more x-values than different corresponding y-values.

G y is a function of x, since the y-values do correspond to exactly one x-value.

H y is not a function of x, since the x-values do not correspond to exactly one y-value.

J y is a function of x, since the x-values do correspond to exactly one y-value.

GO ON

3 Which table represents y as a function of x?

A

x	y
−2	5
−1	4
0	1
1	2
2	1
3	0

B

x	y
−3	6
−1	4
0	3
1	3
3	4
3	6

C

x	y
−5	5
−1	4
0	3
−1	2
−5	1
−7	0

D

x	y
−4	7
−3	5
−2	3
−1	1
0	0
−1	−1

GO ON

4 Which table does NOT represent y as a function of x?

F

x	3	−1	−5
y	3	−1	−5

G

x	1	−4	−6
y	−2	3	−2

H

x	−2	3	−2
y	1	−4	−6

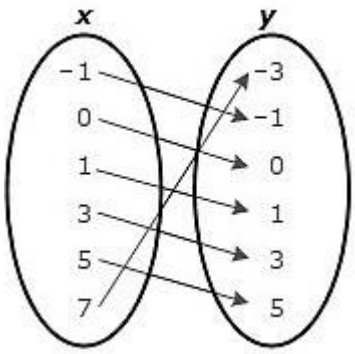
J

x	5	−5	−6
y	8	1	0

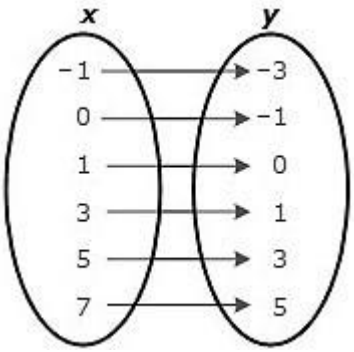
GO ON

5 Which mapping does NOT represent y as a function of x?

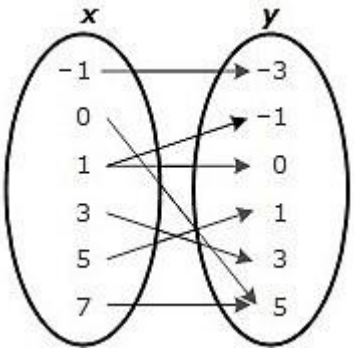
A



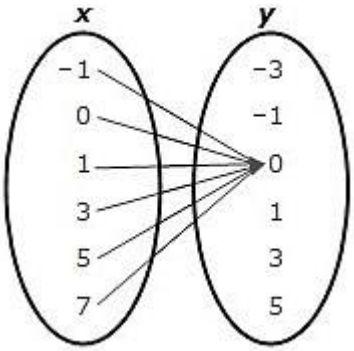
B



C

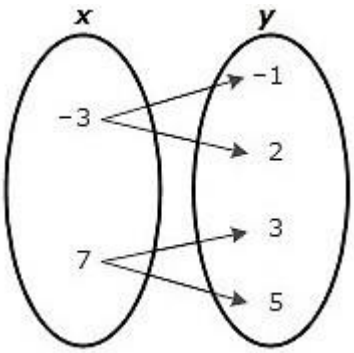


D



GO ON

6 The mapping shows a relationship between x and y.



Which statement is true of the mapping?

F y is not a function of x, since the y-value 3 corresponds to two different x-values.

G y is a function of x, since the y-values do correspond to exactly one x-value.

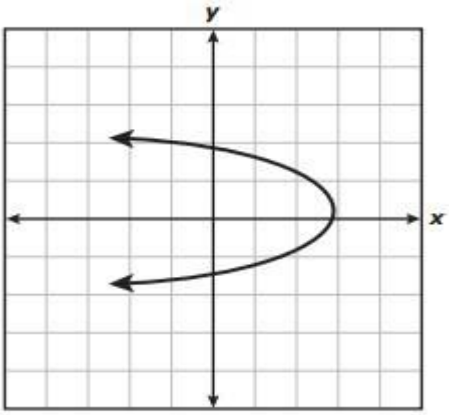
H y is not a function of x, since the x-values do not correspond to exactly one y-value.

J y is a function of x, since the x-values do correspond to exactly one y-value.

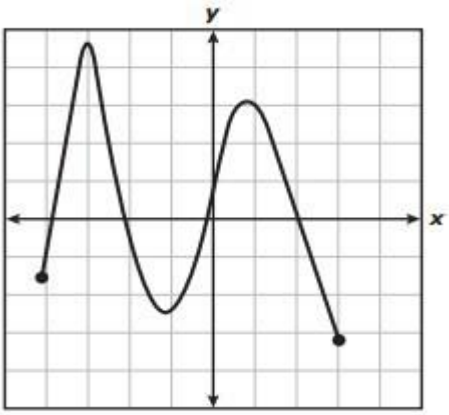
GO ON

7 Which graph represents y as a function of x?

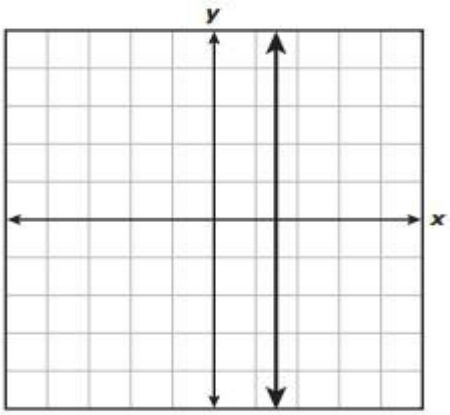
A



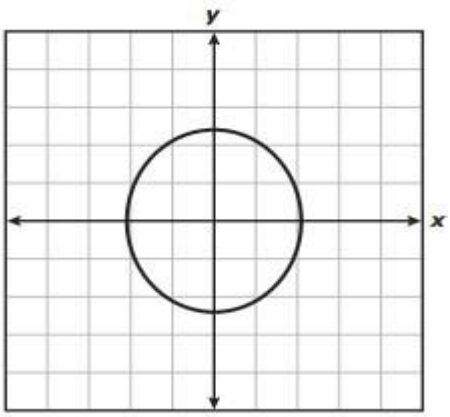
B



C



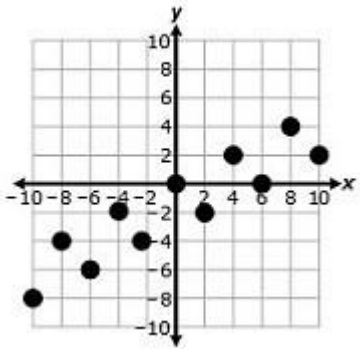
D



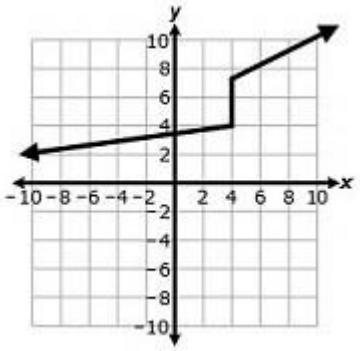
GO ON

8 Which graph represents y as a function of x?

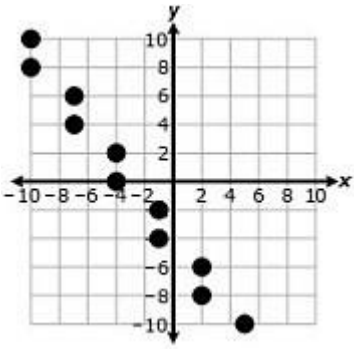
F



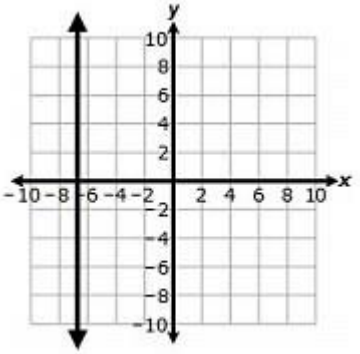
G



H



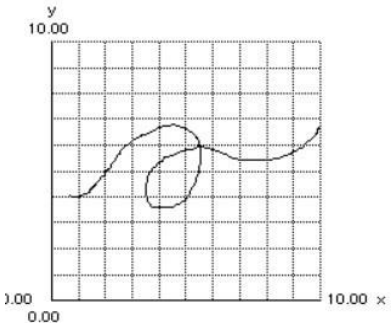
J



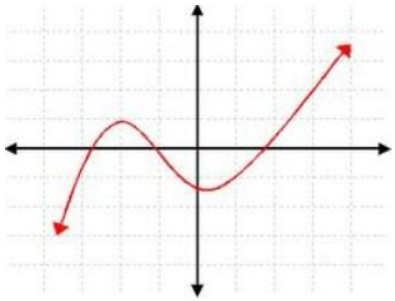
GO ON

9 Which of the following represents a function?

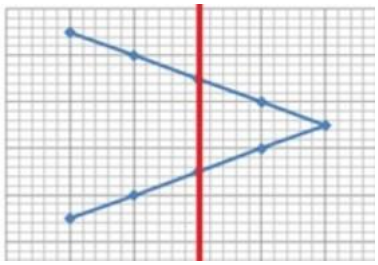
A



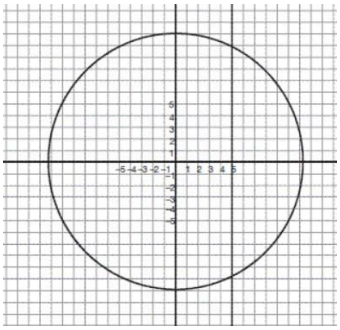
B



C



D



GO ON

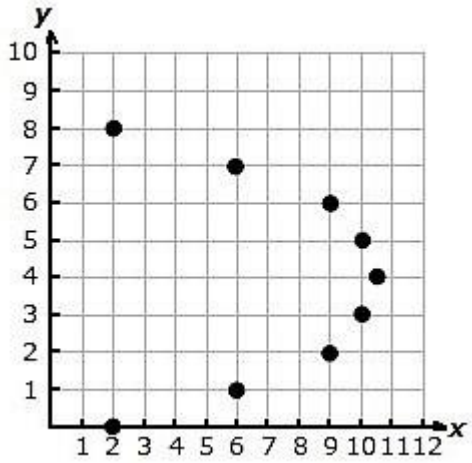
10 Which representation shows y as a function of x?

F {(3, 8), (4, 9), (5, 10), (4, 11), (3, 12)}

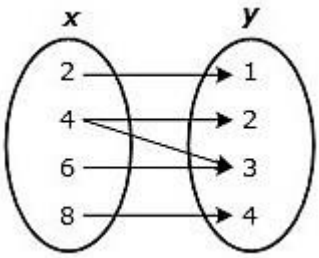
G

x	y
3	4
5	6
11	8
14	6
22	3

H



J



BE SURE YOU HAVE RECORDED ALL OF YOUR ANSWERS ON YOUR ANSWER DOCUMENT

STOP