8.F.1 Understand that a function is a rule that assigns to each input exactly one output.

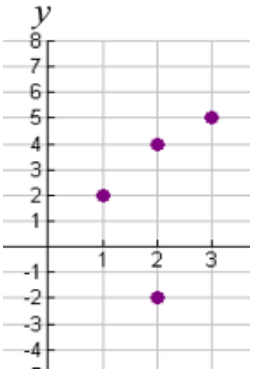
Which of the relations below is not a function?

a) (1,3) (2,4) (3, -3)

b) (1,3) (2,3) (2,4)

c) (0,1/2) (1,1/4) (2,1/8)

d) (3,-3) (4,-4) (5,-5)



Which point needs to be removed from the graph to make it a function?

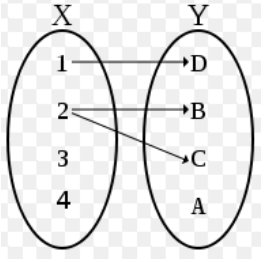
a) (1,2)

b) (2,2)

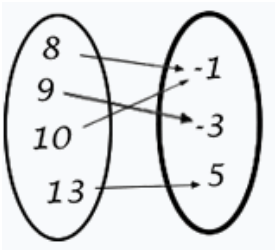
c) (2,4)

d) (3,5)

Mapping Diagram A



Mapping Diagram B



Which statement is true?

a) Both represent a function

b) Neither represent a function

c) Only A represents a function

d) Only B represents a function

Which of the following is NOT a function?

a) Domain is the set of soccer team player's names, range is the positions they have played

b) Domain is the names of the football players, range is their ages

c) Domain is the basketball team's names, range is their genetic code

d) Domain is the volleyball team's names, Range is their school ID number

A student is working with the two functions shown:

- $y = 3x - 5$
- The second function is the set of all values when the input is multiplied by 5.

Part A: The student does not understand what a function is in terms of inputs and outputs. Write an explanation for the student and draw a function machine diagram of your own design.

Part B: Which function has the greater *y*-intercept? Show your work and explain your answer.

8.F.1 Understand that a function is a rule that assigns to each input exactly one output.

Which of the following statements must be true of a function?

A. Every output value corresponds to only one input value.
B. Every input value corresponds to only one output value.
C. Each input is mapped to the same output.
D. No output values are repeated.

Which of the following represents a function?

A. (−1, 15), (0, 10), (0, 5), (2, 5), (5, −5)

B. (−7, −1), (−7, 0), (−7, 1), (−7, 2), (−7, 3)

C. (−5, 10), (−3, 6), (0, 0), (3, 6), (5, 10)

D. (−8, 3), (−4, 3), (0, 3), (0, 5), (4, 5)

EACH OF THE TABLES BELOW SHOWS A RELATION. WHICH IS ALSO A FUNCTION?

A.

Input (x)	1	5	5	7	9
Output (y)	2	8	9	13	21

B.

Input (x)	7	8	9	8	11
Output (y)	3	5	7	6	9

C.

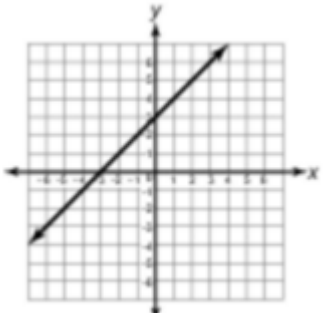
Input (x)	3	7	6	10	15
Output (y)	0	0	0	0	0

D.

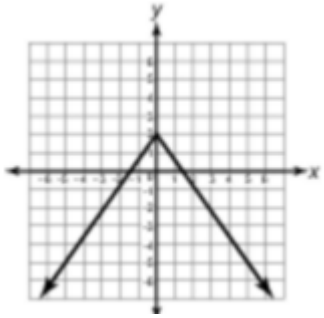
Input (x)	1	1	1	1	1
Output (y)	2	3	4	5	6

Which of these does not represent a function?

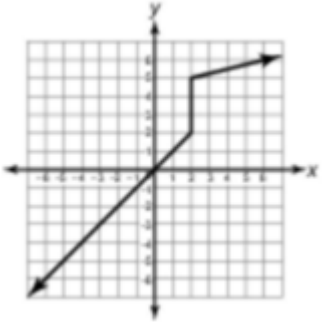
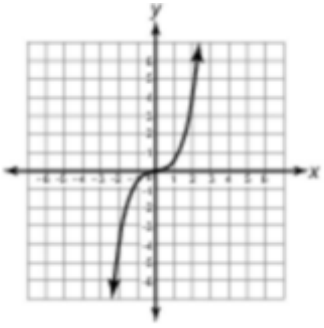
A



B



C



D