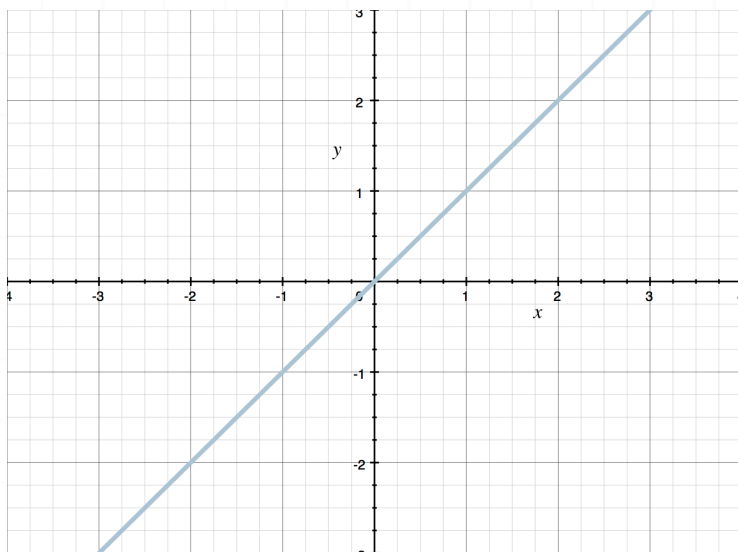
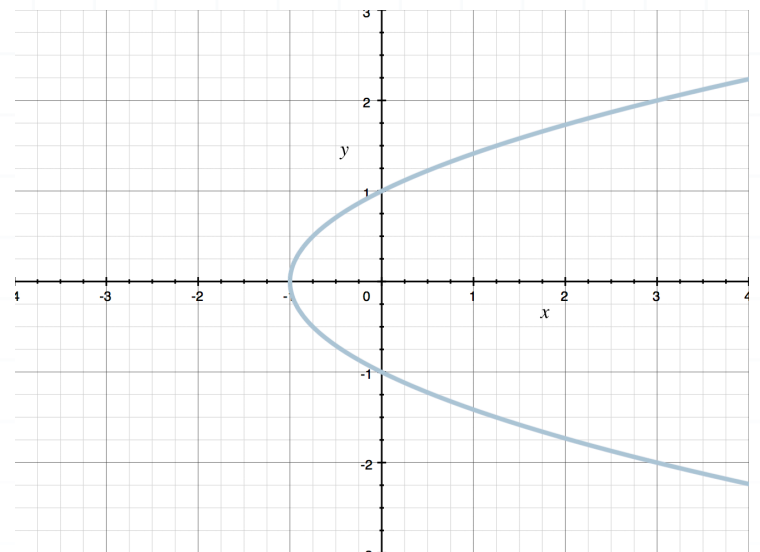
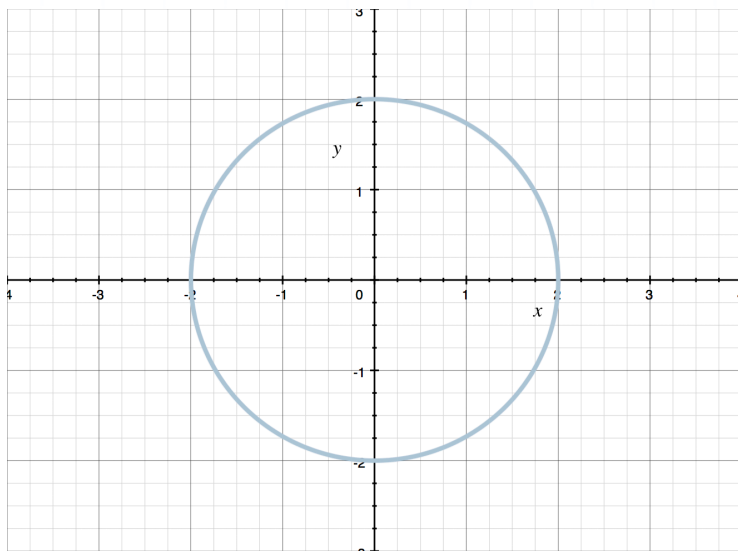
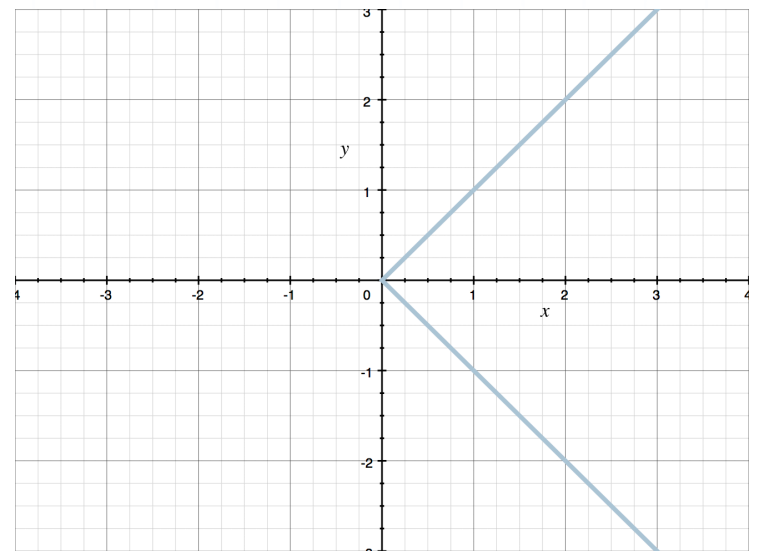
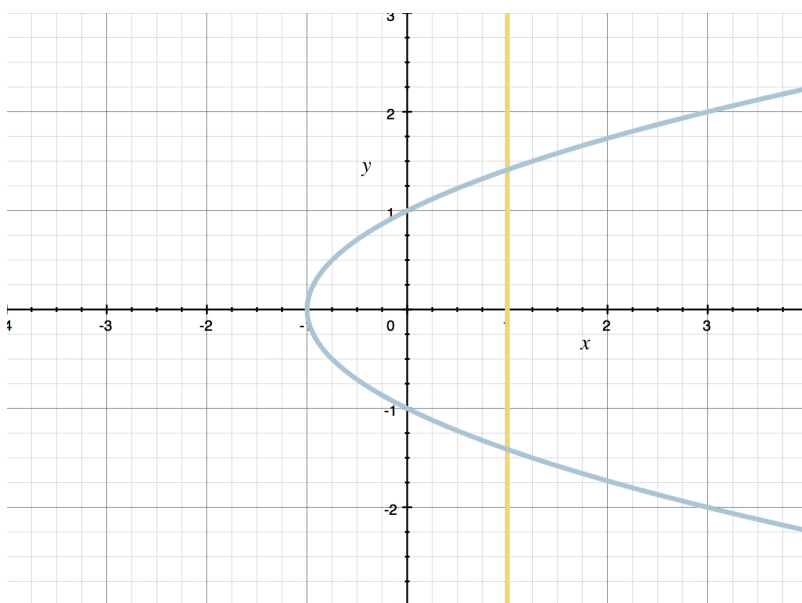
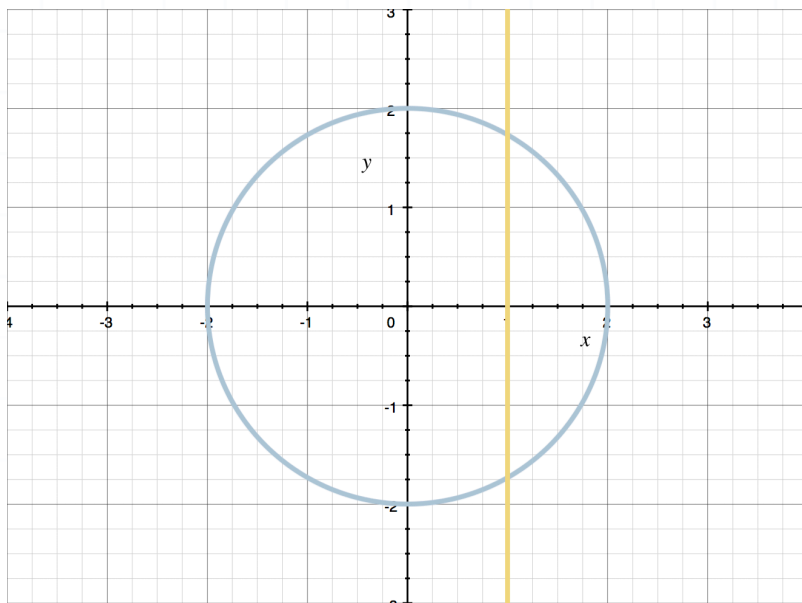


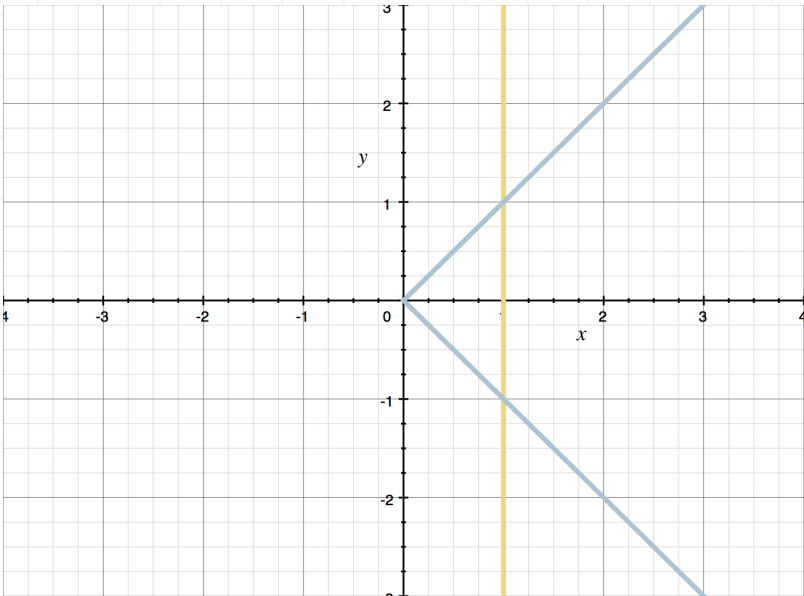
Topic: Testing for functions**Question:** Which graph represents a function?**Answer choices:****A****B****C****D**

Solution: A

The graph in answer choice A represents a function. We know this because we can't draw a perfectly vertical line that crosses the graph in more than one place. Therefore, by the Vertical Line Test, the graph represents a function.

On the other hand, for each of the graphs in answer choices B, C, and D, we can draw a vertical line that crosses the graph in more than one place. Therefore, those graphs don't represent functions.



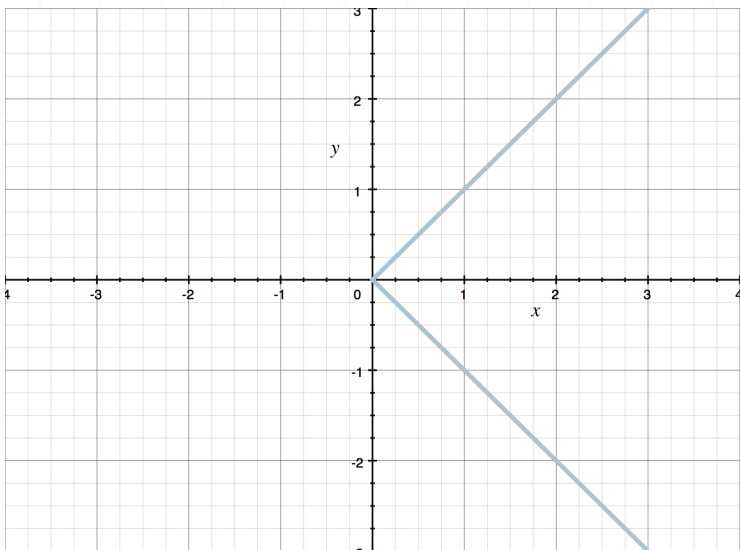


Topic: Testing for functions

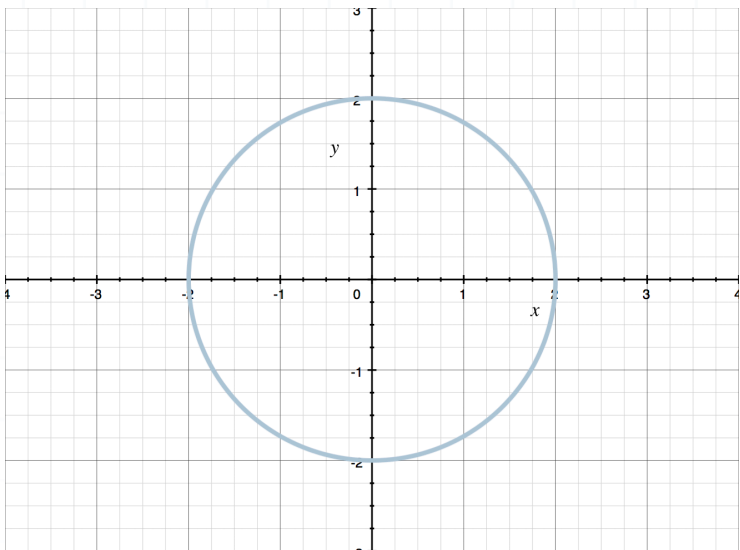
Question: Which of these could represent a function?

Answer choices:

A



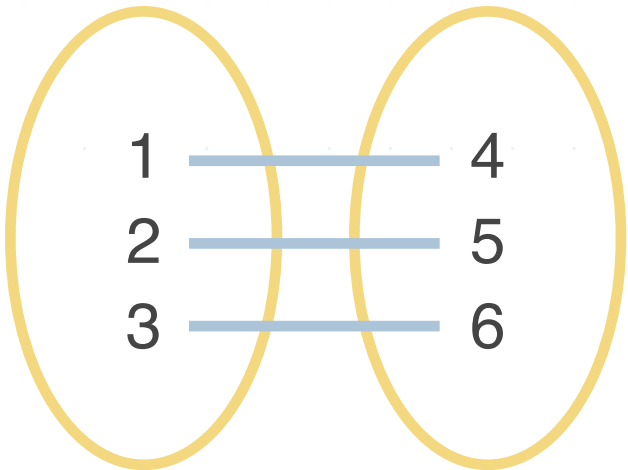
C



B

The relation whose graph consists of the points with coordinates (1,2), (1,3), and (1,4).

D



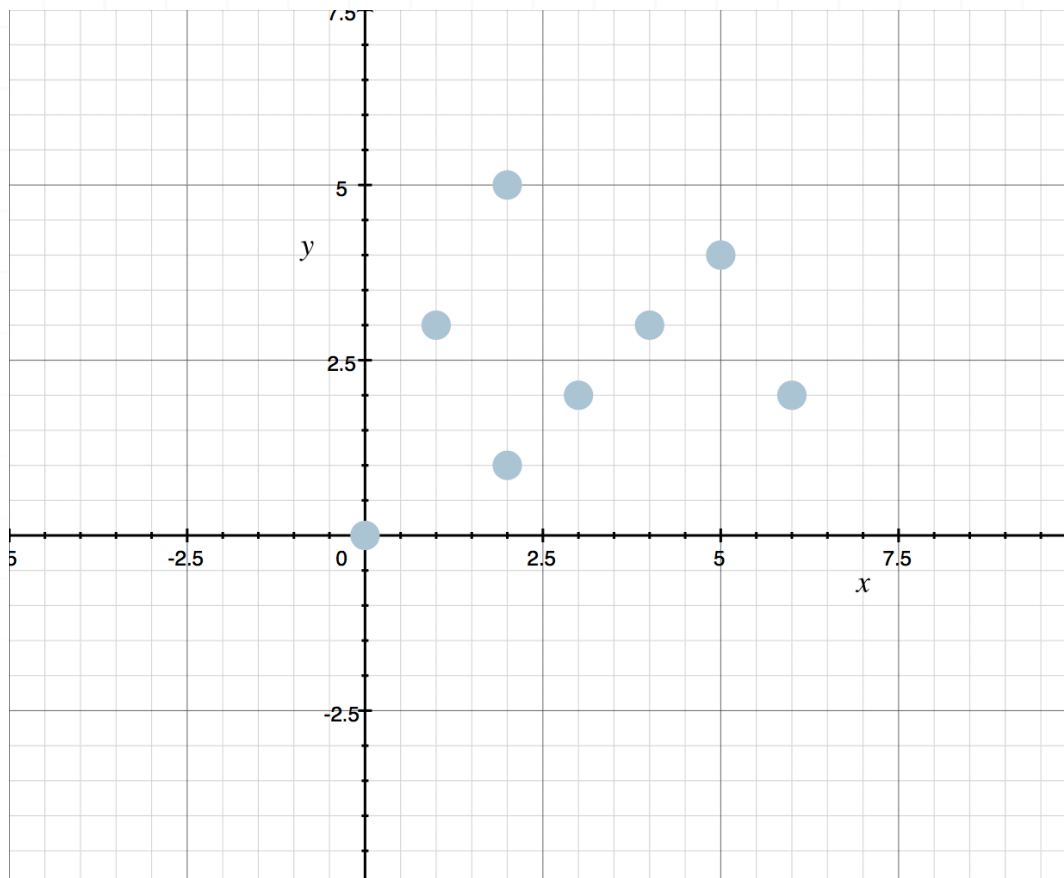
Solution: D

Answer choice D is the only one that could represent a function, because it's the only answer choice that shows only one y -value for every x -value.



Topic: Testing for functions

Question: This graph shows eight points that define a relation between x and y . Two of the eight points show that this relation is not a function. Which two points tell us this?

**Answer choices:**

- A (1,3) and (4,3)
- B (5,4) and (2,1)
- C (3,2) and (6,2)
- D (2,1) and (2,5)



Solution: D

If one x -value gives two different y -values, then the relation is not a function.

Answer choice D shows $x = 2, y = 1$ and $x = 2, y = 5$. In other words, the same x -value but two different y -values. Therefore, we know that the relation is not a function.

To double check, look at the graph and see that a vertical line can pass through $(2,1)$ and $(2,5)$. This also shows that $(2,1)$ and $(2,5)$ are the points that tell us this not a function.

