9.1 Part 1 Functions April 19, 2021

9.1 Part 1 Functions

A <u>function</u> is a relation in which each element of the <u>domain</u> is paired with exactly one element of the range y

* X's cannot repeat*

Example 1

Is $\{(\underline{5}, -2), (\underline{3}, \underline{7}), (\underline{4}, -1), (\underline{-2}, \underline{7})\}$ a function? Why or why not?

yes, it is a function because the x's don't repeat.

Example 2

Is $\{(-1,5), (-9,4), (-1,-4), (3,0)\}$ a function? Why or why not?

No, it is not a function l'écouse the - 1 repeats.

Example 3

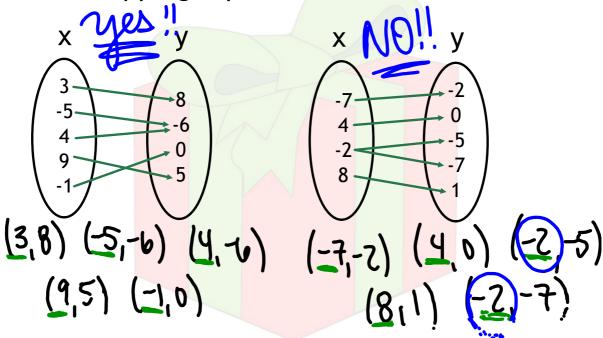
Is {(3,2), (8,-6), (-6,2), (7,4)} a function? Why or why not?

Yes, it is a function because the X2 don't repeat.

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Example 4

Which mapping represents a function?



Vertical Line Test

If any vertical line passes through no more than one point of the graph of a relation, then the relation is a function.

Example 5

Use the vertical line test to determine if each relation is a function.

