

Sep 9-1:46 PM

What is a relation?!

Relation:
rtshp btwn 2 sets of quantities

Definition:
relation for which every input has one & only one output

Non-Examples:

FUNCTIONS

Examples:

Inputs Outputs

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Name _____ Date _____

A RELATION is a set of ordered pairs. Example $\{(2, 5), (0, -1), (-3, 10), (6, 6)\}$

The DOMAIN (X) is the 1st set of coordinates in an ordered pair. Example $(X, _)$

The RANGE (Y) is the second set of coordinates in an ordered pair. Example $(_, Y)$

A function is _____

State the domain and range of each relation. Then determine if each relation is a function. If not, state why it is not a function.

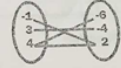
a. $\{(2, 3), (3, 0), (5, 2), (4, 3)\}$

Circle one: Function Not a Function

Explain: every input maps to exactly one output

Domain: _____

Range: _____

b. 

Circle one: Not a Function

Function Not a Function

Explain: 4 maps to -6 and 2 cannot have more than 1 output

Domain: _____

Range: _____

c.

Age (years)	Height (meters)
18	4.25
20	4.40
21	5.25
14	5.00
18	4.85

Circle one: Not a Function

Function Not a Function

Explain: 18 maps to 2 different heights

Domain: _____

Range: _____


Handwritten notes: IN (2, 3, 4) OUT (3, 0, 2)

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Determining whether a graph is a function can be done by _____


Do this by _____

Determine if each relation is a function. If not, state why it is not a function.

a. 

Circle one: Function Not a Function

Explain: passes VLT

b. 

Circle one: Not a Function

Function Not a Function

Explain: fails VLT some x's have 2 y's

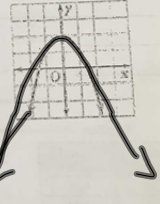
c.

Longevity (years)	Gestation (days)
10	100
15	150
20	200
25	250
30	300
35	350
40	400

Circle one: Not a Function

Function Not a Function

Explain: 20 maps to 2 days

d. 

Circle one: Function Not a Function

Function Function

Explain: passes VLT

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Notes: Functions

FINDING THE DOMAIN AND RANGE OF THE GRAPH OF A RELATION

Remember the domain values are the _____

To find the domain of a graph identify _____

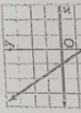
But remember to exclude any value(s) _____

If the graph is just a set of ordered pairs, _____

Interval Notation: _____

- Open parentheses: _____
- Closed parentheses: _____
- Infinity/Negative Infinity: _____
- Union Sign: _____

IDENTIFY THE DOMAIN OF EACH GRAPH

a. 

From the origin, does the graph move to the left? YES NO

If yes, is it continuous to the left? YES NO

From the origin, does the graph move to the right? YES NO


If yes, is it continuous to the right? YES NO

The domain is _____

Begin for... leftmost, rightmost point, then decide what types of brackets/parentheses

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Notes: Fu



From the origin, does the graph move to the left? YES NO

If yes, is it continuous to the left? YES NO

From the origin, does the graph move to the right? YES NO

If yes, is it continuous to the right? YES NO

The domain is _____

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Notes: Functions

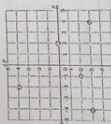
Remember the range values are the Y values

And the range of a graph of function identify _____

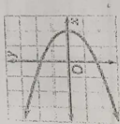
But remember to exclude any vertex(s) _____

If the graph is just a set of ordered pairs _____

IDENTIFY THE RANGE OF EACH GRAPH

a. 

From the origin, does the graph move to the up? YES NO
 If yes, is it continuous to the up? YES NO
 where does it stop? _____
 From the origin, does the graph move to the down? YES NO
 If yes, is it continuous to the down? YES NO
 where does it stop? _____
 The range is _____

b. 

From the origin, does the graph move to the up? YES NO
 If yes, is it continuous to the up? YES NO
 where does it stop? _____
 From the origin, does the graph move to the down? YES NO
 If yes, is it continuous to the down? YES NO
 where does it stop? _____
 The range is _____

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What is _____

Please I _____

ANY ANSWERS CALLS YOU KNOW TO _____

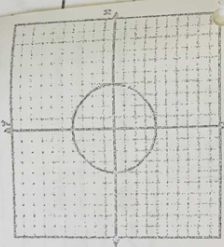
AD 3019 10 _____

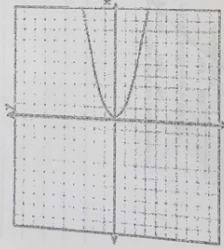
CALL TO _____

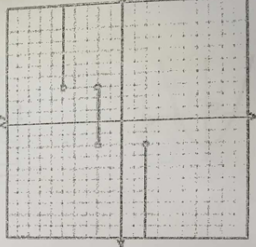
ANY SPEAKERS YOU ARE _____

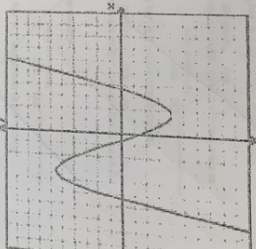
LA... TRAC... _____

Is the graph a FUNCTION? Yes or No:
 State the Domain, Range in interval notation









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