



Algebra 1

Topic: Functions

Instructions

Answer the following questions about functions, domains, and ranges.
Use the graphs and tables to interpret relationships.

Determine if the Relation is a Function

1. $(1, -2), (2, 1), (3, 6), (4, 13), (5, 22)$
2. $(7, 4), (5, -1), (3, -8), (1, -5), (3, 6)$
3. $(1, 2), (2, 3), (3, 4), (4, 5)$
4. $(1, 2), (2, 3), (3, 4), (2, 5)$

Explain whether each relation represents a function or not.

Input-Output Tables

Determine whether the relation is a function:

1.

Input, X	0	1	2	3
Output, Y	-3	0	3	6

2.

Input, X	-10	-8	-6	-4
Output, Y	-8	-6	-4	-2

3.

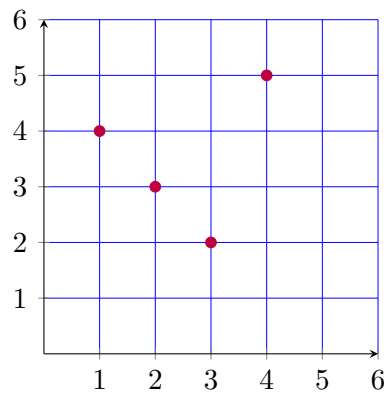
Input, X	16	1	0	1	16
Output, Y	-2	-1	0	1	2

4.

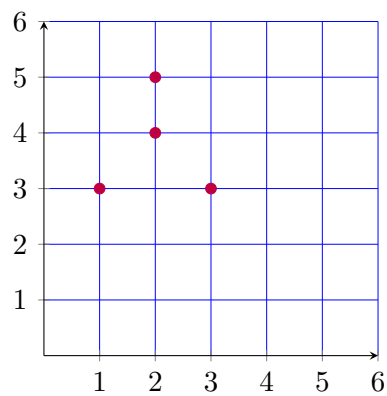
Input, X	-4	-1	2	5
Output, Y	8	2	-4	-10

Graphs and Functions

1. Does the following graph represent a function? Explain.

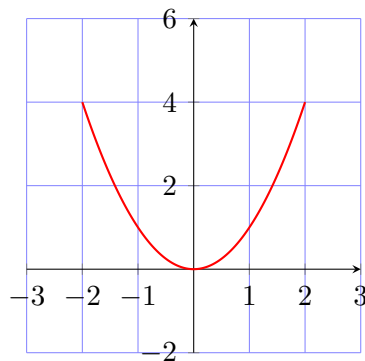


2. Does the following graph represent a function? Explain.

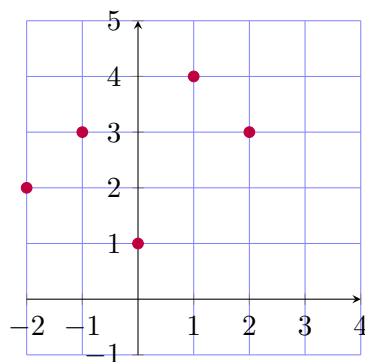


Domain and Range from Graphs

1. Find the domain and range of the graph:



2. Find the domain and range of the graph:



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