

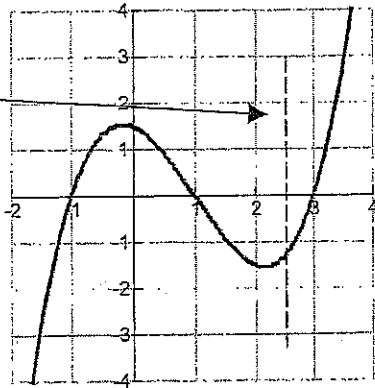
Recognizing Functions

A function is a relationship in which each value of the independent (control) variable determines exactly one value of the dependent variable.

Vertical Line Test: A graph with the independent variable on the horizontal axis represents a function if no vertical line meets the graph in more than one place.

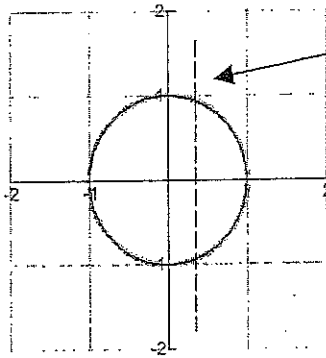
No two points lie on the same vertical line

This graph represents a function



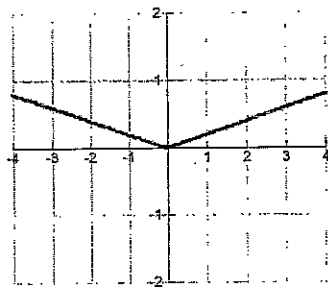
Two points lie on the same vertical line

This graph **does not** represent a function

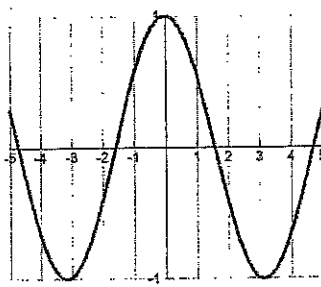


Tell whether each graph represents a function when x is the independent variable. **Explain how you know.**

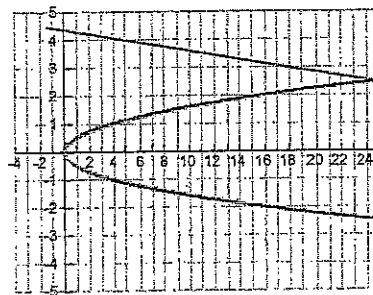
1.



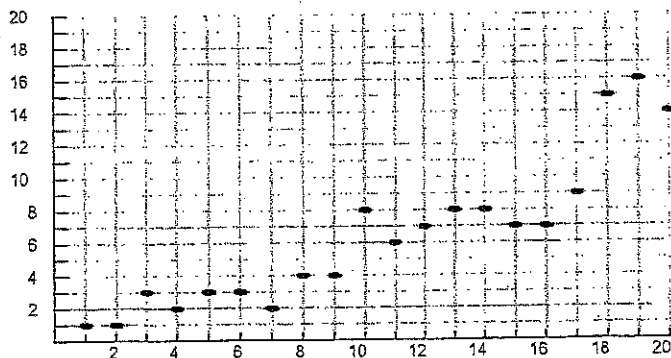
2.



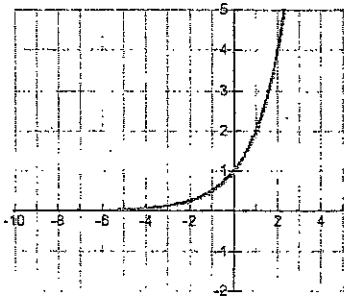
3.



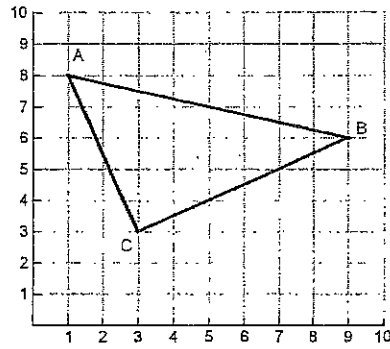
4. Could this graph be represented with a function?



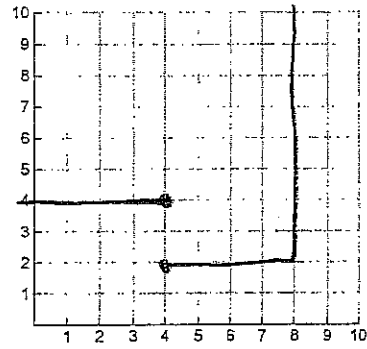
5.



6.



7.



Draw two graphs that are functions and two graphs that are not functions. Explain below how you know each of the graphs can be represented by a function or not.

Function Graphs

Non-Function Graphs

