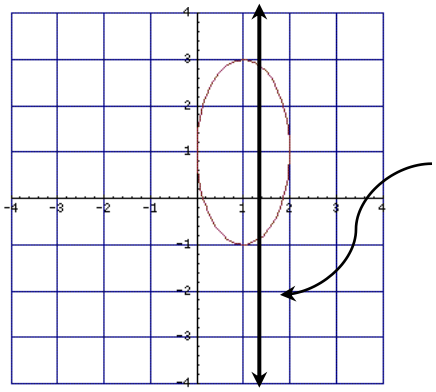
Determining if a Graph is a Function

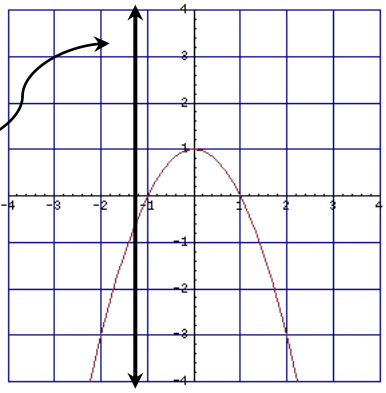
To determine if a graph is a function or not a function, we use the **Vertical Line Test**. If a vertical line intersects the graph at more than one point, then the graph is not a function. A graph is a function if a vertical line does not intersects the graph at more than one point.

Examples

1. This graph is **not a function** because a vertical line intersects the graph at more than one point.



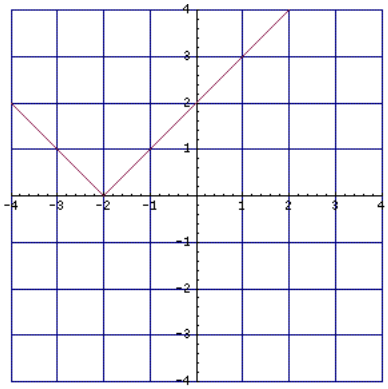
2. This graph is a **function** because any vertical line does not intersect the graph at more than one point.



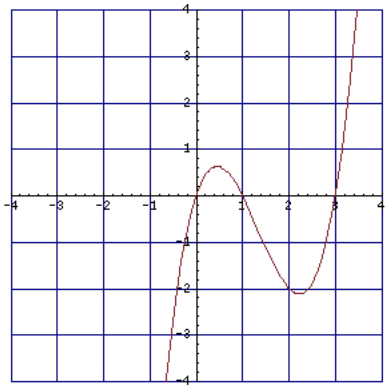
Try These

Determine if the following graphs are functions or not functions.

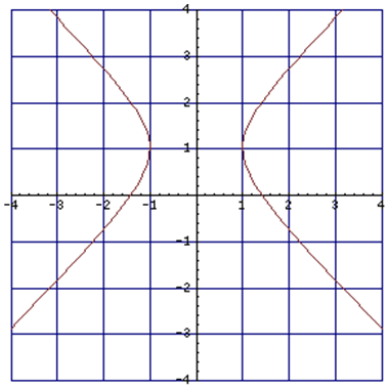
1.



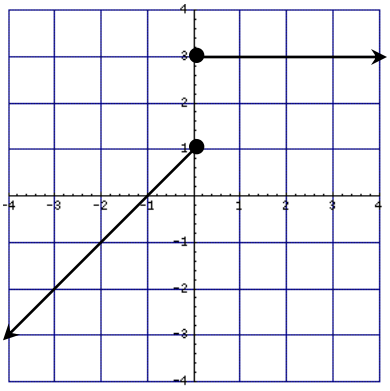
2.



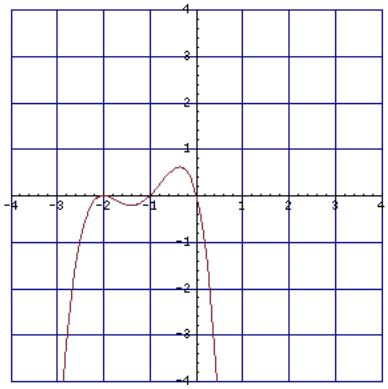
3.



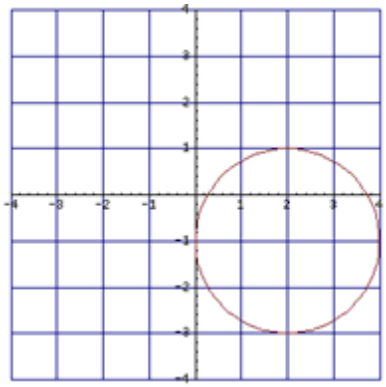
4.



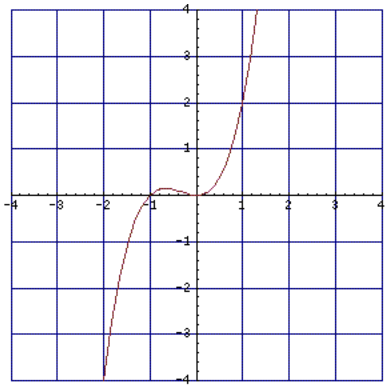
5.



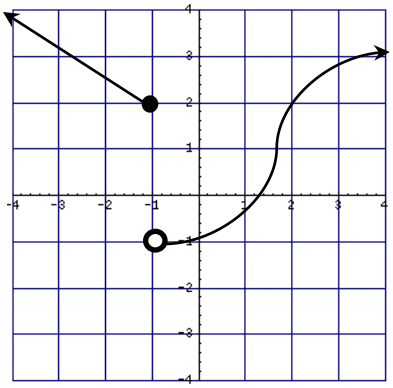
6.



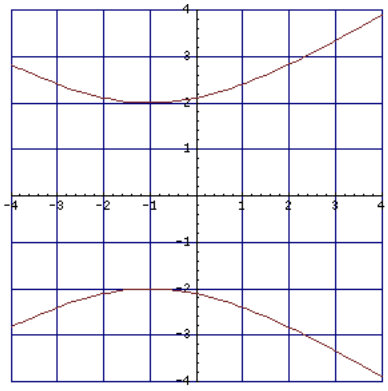
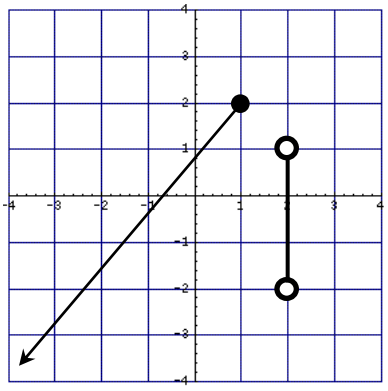
7.



8.



9.



10.