The Graph of a Function

Recall: A graph is a set of points in the Cartesian plane.
Theorem: A graph represents a function if and only if
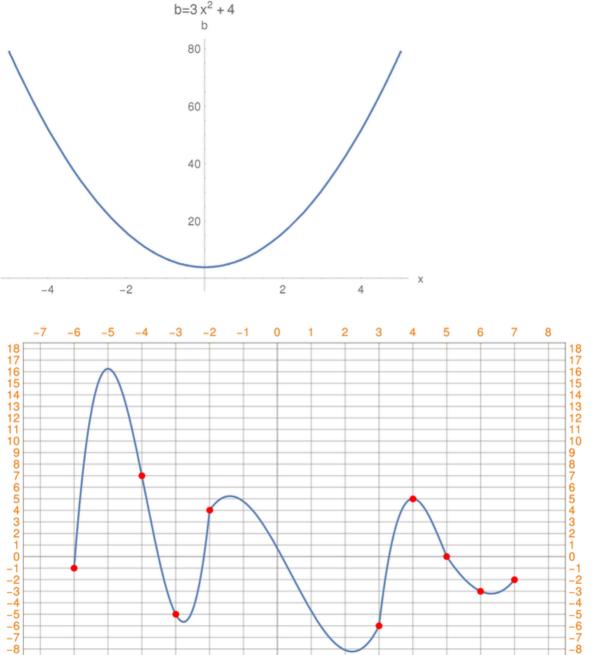every vertical line intersects the graphs in at most one point.

Examples:

$$b = 3x^2 + 4$$