

Graphs of Functions

MAT 1375 Spring 2009

Professor Bonanome

1. **The graph of a function f consists of the points $(x, f(x))$ for every number x in the domain of f .**
2. A function is said to be **increasing on an interval** if its graph always rises as you move from left to right over the interval.
3. A function is said to be **decreasing on an interval** if its graph always falls as you move from left to right over the interval.
4. A function is said to be **constant on an interval** if its graph is horizontal over the interval.
5. The graph of a function $y = f(x)$ has the property: No vertical line intersects the graph more than once. Conversely, any graph with this property is the graph of a function.