

# Math Notes: Functions

April 27, 2025

Functions linear

## 1 Linear and Non Linear Functions

## 2 Graphs

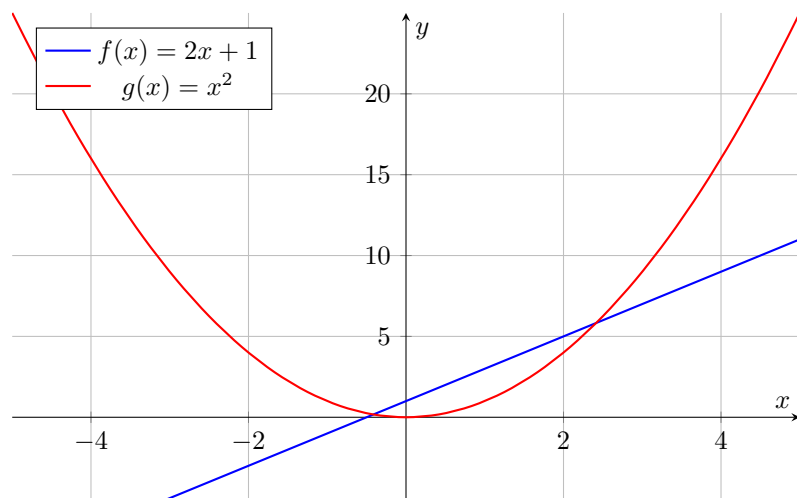


Figure 1: Comparison of a Linear Function  $f(x) = 2x + 1$  and a Non-linear Function  $g(x) = x^2$

## 3 Definitions

Linear - going at the same pace non linear - direction is not going at constant pace

- 4 Formulas and Equations
- 5 Examples
- 6 Practice Problems