

Assignment 9: Exercise 1

Cameron Fredrickson

(a) $\sum_{\substack{x+y+z=n \\ x,y,z \geq 0}} xyz$ (b) $\overbrace{\alpha + \beta + \gamma + \delta}^{\text{this equals 3}} + \overbrace{a + b + c + d}^{\text{this equals 4}}$ (c) $x^n + y^n \stackrel{?}{=} z^n$ for $x, y, z \in \mathbb{Z}$

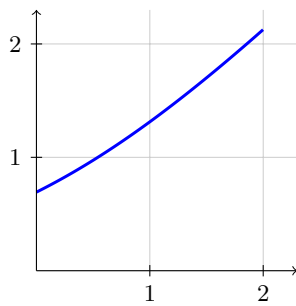


Figure 1: Graph of $\log(1 + e^x)$

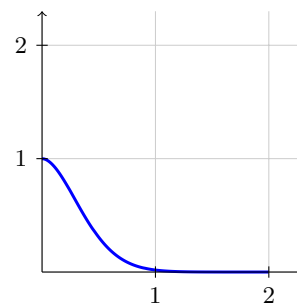


Figure 2: Graph of $\sin^{x^2} x$

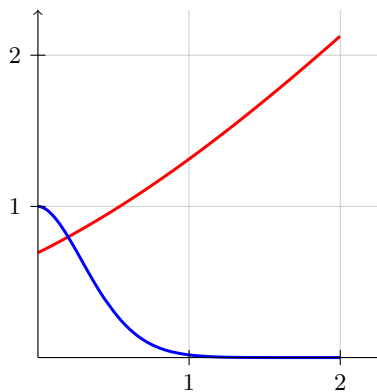


Figure 3: $\sin^{x^2} x$ and $\log(1 + e^x)$ together on the same graph