

# Beautiful Mathematics Part 2

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# 1 More Math Symbols

## 1.1 Sum

$$\sum_{n=0}^{\infty} \frac{1}{n^2+1}$$

$$\sum_{n=0}^{\infty} \frac{1}{n^2+1}$$

## 1.2 Integrals

$$\int_0^{\infty} x^2 dx$$

$$\iint_D x^2 + y dy dx$$

$$\int_0^{\infty} x^2 dx$$

## 1.3 Limits

$$\lim_{x \rightarrow 1} x$$

$$\lim_{x \rightarrow 1} x$$

## 1.4 Other

$$\max_{n \in \{1,2,3\}} n$$

$$\min, \sup, \inf, \limsup$$

$$\max_{n \in \{1,2,3\}} n$$

# 2 Exercise: Replicate the Mathematics 1

$$\sum_{n=1}^{\infty} \frac{1}{2^n} = 1$$

$$\iint_D e^{-x^2-y^2} dx dy$$

### **3 Mathematics on Multiple Lines**