1 Introduction

You can write math inline with text like this: $2 + 3 = 5$
Superscript example: x^{24}
Subscript example: x_{25}

2 Greek Letters

These are pretty straight forward for LaTeX α β γ

3 Basic Math Functions

Here are some basic math functions:
$\sin z$
$\sqrt{7}$
$\frac{i}{\sqrt{2}}$
$y \subseteq z$

4 Equations on a new line

$$x^5 - 7x^{-3} + 4 \tag{1}$$

$$\sum_{n=1}^{10} \log n \tag{2}$$

$$\int_2^3 x^2 dx$$