LaTeX Basics Practice Document

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Introduction

This document includes several examples of mathematical formulas for you to create to *practice* using LaTeX. **Try to recreate this document.**

1 Math

1.1 Fractions

$$\frac{1 + x^2}{1 - x^2}$$

1.2 Limits

$$\lim_{x \to 3}(2x^2 - x - 2) = 13$$

1.3 Integrals

$$\int_b^a f(x)dx = -\int_a^b f(x)dx$$

1.4 Sums

$$\sum_{i=1}^n x_i = x_1 + x_2 + \cdots + x_n$$

1.5 Operators

$$y\frac{dy}{dx} = \frac{\cos x}{\sin y^2}$$