1 Mathematics Typing - Main Learning

1.1 1. Basic Math Modes

Inline math: y = mx + c

Display math:

y = mx + c

1.2 2. Superscripts and Subscripts

$$x^2, a_n, x_i^2, n_{k-1}^{m+1}$$

1.3 3. Greek Letters and Functions

 α , β , θ , Γ , $\sin \theta$, $\log x$

1.4 4. Integration Example

$$\int_{-\infty}^{\infty} e^{-x^2} dx$$

1.5 5. Aligned Equations

$$a = b + c$$

$$x = y - z$$

$$Q_{n,k} = Q_{n-1,k} + Q_{n-1,k-1}$$

1.6 6. Numbered Equation and Matrices

$$e^{i\pi} + 1 = 0 \tag{1}$$

 $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$

1.7 7. Math Fonts and Bold Math

Normal: ABCBold: ABCRoman: ABCBlackboard: \mathbb{R} Bold Greek: $\alpha + \beta$