

---

---

*Template for the class ``Note for  
Myself' in sectionlevel=book*



阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴  
巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴阿巴  
阿巴阿巴阿巴!

---

---

# Template for the class “Note for Myself” in sectionlevel=book

**Author:** The author

**Email:** email

**Homepage:** [example.com](http://example.com)

*Source code:* [github.com/MonkeyUnderMountain/TeXTemplates](https://github.com/MonkeyUnderMountain/TeXTemplates)

*Version:*

*Last updated:* August 12, 2025

*Copyright © 2025 The author*

# Contents

<b>1</b>	<b>In sectionlevel=book</b>	<b>5</b>
1.1	Section name . . . . .	5
1.1.1	Fonts in math mode . . . . .	5
1.1.2	Theorems and definitions . . . . .	6
1.1.3	sectionlevel=book . . . . .	7
<b>2</b>	<b>Test</b>	<b>9</b>
2.1	Test Section . . . . .	9
2.1.1	Test Subsection . . . . .	9
	<b>References</b>	<b>11</b>



# Chapter 1

## In sectionlevel=book

### 1.1 Section name

#### 1.1.1 Fonts in math mode

We use unicode-math package to support unicode math symbols, the following is a list of some common math symbols:

- $\alpha, \beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \iota, \kappa, \lambda, \mu, \nu, \xi, \pi, \rho, \sigma, \tau, \upsilon, \phi, \chi, \psi, \omega$
- $A, B, \Gamma, \Delta, E, Z, H, \Theta, I, K, \Lambda, M, N, \Xi, \Pi, P, \Sigma, T, Y, \Phi, X, \Psi, \Omega$
- $\infty, \partial, \nabla, \exists, \forall, \neg, \wedge, \vee, \Rightarrow, \Leftrightarrow, \subseteq, \supseteq, \cap, \cup, \setminus, \emptyset$
- $0, 1, 2, 3, 4, 5, 6, 7, 8, 9$
- $+, -, \times, \div, =, <, >, \leq, \geq$
- $a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z$
- $A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z$
- $\mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{x}, \mathfrak{y}, \mathfrak{z}$
- $\mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}$
- $\mathbf{a}, \mathbf{b}, \mathbf{c}, \mathbf{d}, \mathbf{e}, \mathbf{f}, \mathbf{g}, \mathbf{h}, \mathbf{i}, \mathbf{j}, \mathbf{k}, \mathbf{l}, \mathbf{m}, \mathbf{n}, \mathbf{o}, \mathbf{p}, \mathbf{q}, \mathbf{r}, \mathbf{s}, \mathbf{t}, \mathbf{u}, \mathbf{v}, \mathbf{w}, \mathbf{x}, \mathbf{y}, \mathbf{z}$
- $\mathbb{A}, \mathbb{B}, \mathbb{C}, \mathbb{D}, \mathbb{E}, \mathbb{F}, \mathbb{G}, \mathbb{H}, \mathbb{I}, \mathbb{J}, \mathbb{K}, \mathbb{L}, \mathbb{M}, \mathbb{N}, \mathbb{O}, \mathbb{P}, \mathbb{Q}, \mathbb{R}, \mathbb{S}, \mathbb{T}, \mathbb{U}, \mathbb{V}, \mathbb{W}, \mathbb{X}, \mathbb{Y}, \mathbb{Z}$
- $\mathbf{a}, \mathbf{b}, \mathbf{c}, \mathbf{d}, \mathbf{e}, \mathbf{f}, \mathbf{g}, \mathbf{h}, \mathbf{i}, \mathbf{j}, \mathbf{k}, \mathbf{l}, \mathbf{m}, \mathbf{n}, \mathbf{o}, \mathbf{p}, \mathbf{q}, \mathbf{r}, \mathbf{s}, \mathbf{t}, \mathbf{u}, \mathbf{v}, \mathbf{w}, \mathbf{x}, \mathbf{y}, \mathbf{z}$
- $A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z$
- $\mathbf{a}, \mathbf{b}, \mathbf{c}, \mathbf{d}, \mathbf{e}, \mathbf{f}, \mathbf{g}, \mathbf{h}, \mathbf{i}, \mathbf{j}, \mathbf{k}, \mathbf{l}, \mathbf{m}, \mathbf{n}, \mathbf{o}, \mathbf{p}, \mathbf{q}, \mathbf{r}, \mathbf{s}, \mathbf{t}, \mathbf{u}, \mathbf{v}, \mathbf{w}, \mathbf{x}, \mathbf{y}, \mathbf{z}$

- A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
- a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
- A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
- A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
- a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
- A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
- a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z

### 1.1.2 Theorems and definitions

There are two types of theorem environments, one is with background color, the other is without background color. The following is a list of theorem environments supported by this template:

**Definition 1.1.1** (this is a definition). test

**Proposition 1.1.2** (this is a proposition). test

*Proof.* This is a proof environment, it is used to prove theorems, propositions, lemmas, corollaries, etc. We allow to use step environments inside the proof environment, such as:

**Step 1.** This is a step environment, it is used to break down the proof into smaller steps.

**Step 2.** This is another step environment, it is used to break down the proof into smaller steps.

And the step environment should be used inside the proof environment. The proof environment will automatically end with a square box. □

**Theorem 1.1.3** (this is a theorem). test

*Proof.* This is a proof environment. The step environment is labelled in the proof environment. A new proof environment will refresh the step environment counter.

**Step 3.** Goal 1.

Proof of Goal 1.

**Step 4.** Goal 2.

Proof of Goal 2. □

**Lemma 1.1.4** (this is a lemma). test

**Corollary 1.1.5** (this is a corollary). test

**Question 1.1.6** (this is a question). test

**Conjecture 1.1.7** (this is a conjecture). test

**Example 1.1.8** (this is an example). test

**Exercise 1.1.9** (this is an exercise). test

**Remark 1.1.10** (this is a remark). test

*this is a proof.* test

□

### 1.1.3 sectionlevel=book

In this mode, the chapter is the highest level. The section is the second level, and the subsection is the third level. The section is numbered with the chapter number, such as 1.1, 1.2, etc. There is a title page, a table of contents, and a cover image. All theorem and definition environments are labelled in the form of chapter.number, such as 1.1, 1.2, etc.





# Chapter 2

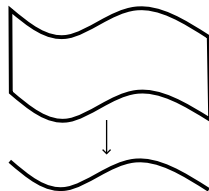
## Test

Test references [[Har77](#)].

### 2.1 Test Section

#### 2.1.1 Test Subsection

Test plots:



There are some test texts here, and some test equations:



# References

- [Har77] Robin Hartshorne. *Algebraic geometry*. Vol. No. 52. Graduate Texts in Mathematics. Springer-Verlag, New York-Heidelberg, 1977, pp. xvi+496. ISBN: 0-387-90244-9 (cit. on p. [9](#)).