

Note Template

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Abstract

This is a note template, with all but minimal compilable files provided.
Feel free to adjust for your usage.

Contents

1	A Template for you to take note	1
1.1	Useful Environment	1
1.2	Figures	2
A	Additional Proofs	3
A.1	Proof of Theorem 1.1	3

Lecture 1: First Lecture

13 Oct. 08:00

1 A Template for you to take note

This is a simple demo for you to take fancy notes in L^AT_EX!

1.1 Useful Environment

We now see some common environment you'll need to complete your note.

Lemma 1.1 (useful lemma). Given the axioms, we have

$$0 \neq 1.$$

Proposition 1.1 (useful proposition). From [Lemma 1.1](#), we have

$$0 < 1.$$

Theorem 1.1 (Mass-energy equivalence). Given [Proposition 1.1](#), we then have

$$E = mc^2.$$

Proof. The blank left for me is too small,¹ hence we put the proof in [Appendix A.1](#). ■

Corollary 1.1 (Riemann hypothesis). From [Theorem 1.1](#), we then have the following.

The real part of every nontrivial zero of the Riemann zeta function is $\frac{1}{2}$, where the Riemann zeta function is just

$$\zeta(s) = \sum_{n=1}^{\infty} \frac{1}{n^s} = \frac{1}{1^s} + \frac{1}{2^s} + \frac{1}{3^s} + \cdots .$$

Proof. The proof should be trivial, we left it to you. ■

DIY (Do It Yourself)

As previously seen. We see that [Lemma 1.1](#) is really helpful in the proof!

Remark. This leads to lots of useful theorem!

Note. I hope you learn something while proving this!

Example. Here are some applications of [Corollary 1.1](#), see the link.²

1.1.1 Internal Link

You should see all the common usages of internal links. Additionally, we can use citations as [\[New26\]](#), which just link to the reference page!

1.2 Figures

A simple demo for drawing:

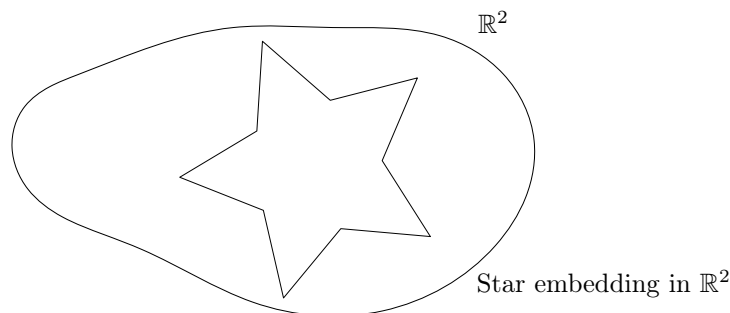


Figure 1: Random Drawing.³

¹https://en.wikipedia.org/wiki/Richard_Feynman

²<https://math.stackexchange.com/questions/404624/what-does-proving-the-riemann-hypothesis-accomplish>

³For detailed information, please see <https://github.com/sleepymalc/VSCoDe-LaTeX-Inkscape>.

Appendix

A Additional Proofs

A.1 Proof of [Theorem 1.1](#)

See https://en.wikipedia.org/wiki/Mass%E2%80%93energy_equivalence.

References

- [New26] I. Newton. *Philosophiae naturalis principia mathematica*. Innys, 1726.
URL: <https://books.google.com/books?id=WeZ09rjv-1kC>.