

# Hoge Theory

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# Preface

Hello World! Read [\[1\]](#)!

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## Notations

- ◇  $\neg$  : negation.
- ◇  $\vee$  : disjunction.
- ◇  $\wedge$  : conjunction.

# Chapter 1

## All We Need Is Love.

### 1.1 Introduction

**Theorem 1.1.1.** *The following equality holds.*

$$\left(\int_0^\infty \frac{\sin x}{\sqrt{x}} dx\right)^2 = \sum_{k=0}^\infty \frac{(2k)!}{2^{2k}(k!)^2} \frac{1}{2k+1} = \prod_{k=1}^\infty \frac{4k^2}{4k^2-1} = \frac{\pi}{2}.$$

*Proof.* Write a clear proof.

□

**Remark 1.1.2.** Some comments.

◁

# Bibliography

- [1] Shena. *Stochastic Fuga Theory*. OMG Press, 2101. ISBN: 00000000000.