

Chapter 1: Probability and Counting

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This section provides an overview of the chapter contents.

2 Definitions

Definition 2.1 (Definition 1). Description of the definition.

3 Theorems and Proofs

Theorem 1.1: Statement of the theorem.

Proof: Provide the proof here. For example:

$$E = mc^2$$

End of proof.

4 Notes

Additional remarks or observations about the chapter.

5 Exercises

If you're taking notes on exercises:

- **Exercise 1:** Description of the exercise.
- **Solution:** Provide solution if applicable.