Course Code
Name of class

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December 24, 2025

Contents

Chapter 1

Style Verification

1.1 Box Environments

Definition 1.1: Sample Definition

This tests the red header box style with variable width.

Lemma 1.1 Consistency

All boxes should respect the chapter-based numbering.

Proposition 1.1 Simple Math

Testing math shortcuts: $\mathbb{R}$, $\mathbb{C}$, and ϵ.

Corollary 1.1 Visual Polish

Corollaries use the purple accent color.

Claim 1.1 Design

The Claim box uses a green borderline west style.

Example 1.1 (Working Example)

This tests the teal-framed example box.

$$\|x\|_p = \left(\sum_{i=1}^{n} |x_i|^p \right)^{1/p} \tag{1.1}$$

1.1.1 Test subsection

The art of yapping they say.

Chapter 2

Interaction & Logic

2.1 Problem Solving

Question 1: Logical Test

Does the Question counter reset at the start of a new chapter?

Solution

This is the solution environment. Note how the green header aligns with the question box above it.

Note:-

This is a floating note with a drop shadow. It is useful for highlighting non-critical but helpful information.

2.2 Algorithms & Math

Algorithm 1: The Cleanup Process

Input: Initial LaTeX code
Output: Cleaned PDF
`/* Test of algorithm2e styling */`

```
1 if Compile is successful then
2 |   Keep working;
3 end
4 else
5 |   Check the log file;
6 end
```

2.3 Proof Styling

Custom Proof Name: We use the `myproof` environment to ensure the QED symbol is the custom smiley face 😄 defined in the preamble. □