Example Assignment - 1

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1 Introduction

In this example, we show the basic functions of this class. This class is both compatible with pdfITFX and XATFX.

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2 Example environments

2.1 Example of figure

Here we show Fig. 2.1a and Fig. 2.1b.

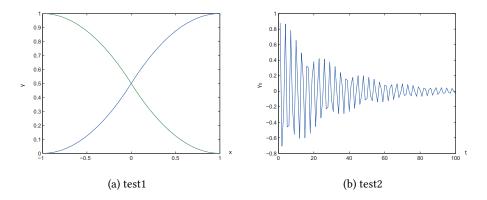


Figure 2.1: Test graphs.

2.2 Example of Table

Here we show an example, Table 2.1.

Table 2.1: Example table

Symbol		Description
α	text 1	
Γ	text 2	
Ω	text 3	

Here we show another table, Table 2.2 is long and breakable.

Table 2.2: Example long table

Symbol	Description
α	text 1
Γ	text 2

Ω	text 3
χ	a lot of rows

2.3 Example of Theorem

We refer Theorem 1 and Question 1 respectively.

Theorem 1 (Title) Here we show an theorem.

Question 1 (Special exercise) Here we show a question.

2.4 Example of algorithm

Test Algorithm in Algorithm 1:

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Algorithm 1 DWT Algorithm
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Input: Sequence \mathbf{x} in time domain

Output: Sequence \hat{\mathbf{x}} in wavelet domain

1: \mathbf{N} = \lfloor \log_2(\operatorname{length}(\mathbf{x})) \rfloor;

2: \mathbf{c}_N = \mathbf{x}, \hat{\mathbf{x}} = \emptyset;

3: for i from 1 to N do

4: \mathbf{c}_{N-i}, \mathbf{d}_{N-i} = \operatorname{analysis\_filter}(\mathbf{c}_{N-i+1});

5: insert \mathbf{d}_{N-i} at the beginning of \hat{\mathbf{x}}.

6: end for
```

3 Example of special text

My name is Yuchen Yucen Jin, I am a graduate school student of University of Houston. My major is Electrical and Computer Engineering. I am not certain about whether I am a top student. Now I believe that I should not discuss about the topic about myself this topic.