An Example Test Document

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Chapter 1

Introduction

This document is a test example designed to help check various LaTeX formatting techniques, including tables, figures, and formulas. In the following sections, we will demonstrate these features.

Chapter 2

Chapter1

This is a chapter with some text. You can check the references number here, like Fig. 1.1 or Fig. 1.

2.1 Tables

There is a simple table in this section (Tab. 2.1).

Table 2.1: An example table with parameters.

Parameter	Symbol	Value
Example Parameter 1	P_1	$100\,\text{W}$
Example Parameter 2	P_2	$50\,\text{m}$
Example Parameter 3	P_3	$0.1\,\text{s}$

Tab. 2.2 shows a more complex table.

Table 2.2: Example Global Economic Indicators

Region	Indicator	Value
Region A	Economic Growth	3.5%
		1.5 trillion
		4.8% Inflation
	Unemployment Rate	5.1%
		2.4% (Youth)
		4.7% (Women)
		3.2% (Men)
Region B	Economic Growth	2.1%
		0.9 trillion
		2.3% Inflation
	Unemployment Rate	6.7%
		3.8% (Youth)
		4.5% (Total)

2.2   Figures and their References

2.2.1   Example Figure

Below is an example figure (Fig. 2.1) showing a diagram that might represent a process or a conceptual flow.

2.2.2   Subfigures

Below is an example of subfigures (Fig. 2.2), which contains 4 subfigures (Fig. 2.2(a), Fig. 2.2(b), Fig. 2.2(c), and Fig. 2.2(d)).

2.3   Formulas and Equations

This section includes an example of how to format equations. The incidence matrix is given by Eq. 2.1:
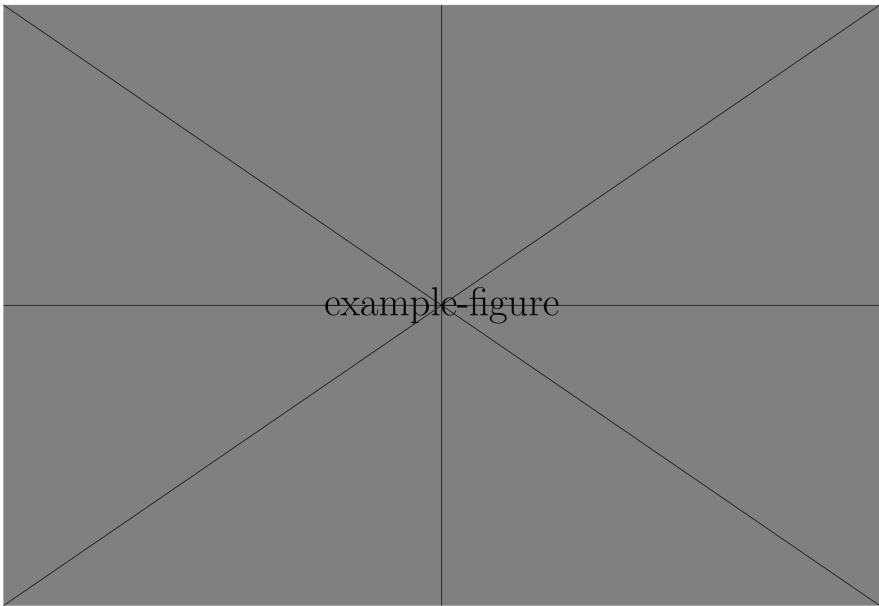
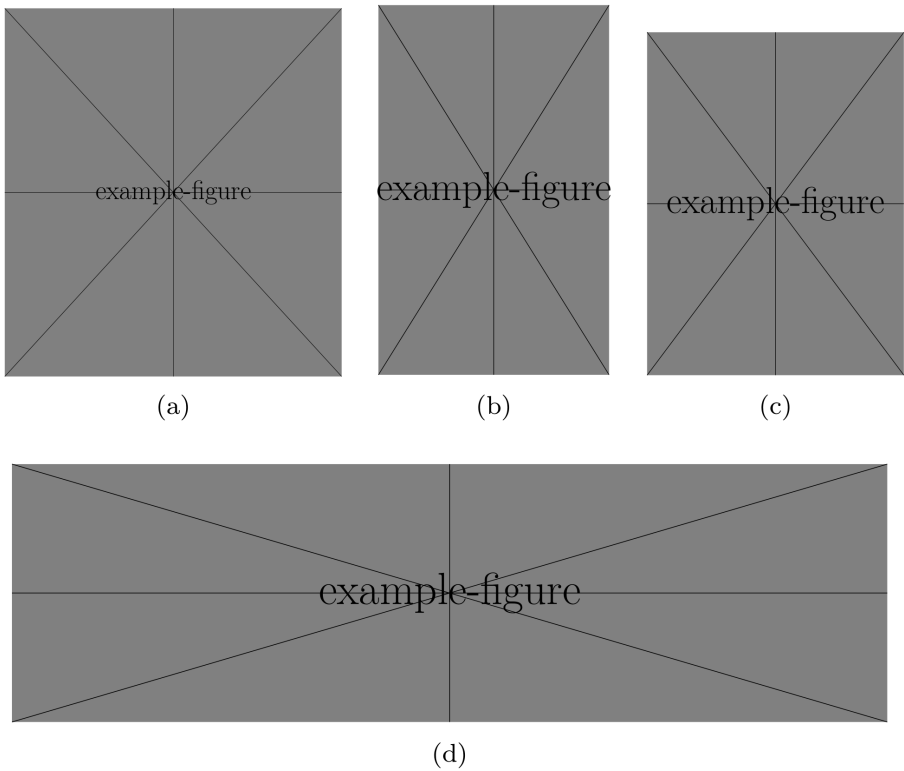Figure 2.1: An example figure showing a conceptual diagram.

Figure 2.2: Example subfigures (a) Subfigure 1, (b) Subfigure 2, (c) Subfigure 3, and (d) Subfigure 4.

$$a_{kl} = \begin{cases} 1, & \text{edge } l \text{ leaves node } k, \\ -1, & \text{edge } l \text{ enters node } k, \\ 0, & \text{otherwise,} \end{cases} \tag{2.1}$$

where a_{kl} is the element of the incidence matrix, k is the node index, and l is the edge index.

2.4   References

This section includes an example of how to cite references[**?**].