

# SUNQUAR<sup>TM</sup>TEX Example - enpre

## Subtitle Here

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SUNQUAR<sup>TM</sup>TEX

2024-02-22<sup>1</sup>

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<sup>1</sup>Last modified on 2024-02-22.

# Texts

long **long** long long long *long long long* long long long long long long long  
long long long long long long long long long long long sentence.  
long  
long long long long long long long long long long long paragraph.

- left bar.
  - narrow narrow
  - left bar.
- right bar.
  - wide right bar.

# Lists

- This is a list.
- A compact list.

Wow.

- This is a list.
- A sparse list.

A definition list below.

**Reflexivity**  $a \sim a$

**Antisymmetry**  $a \leq b \wedge b \leq a \implies a = b$

**Transitivity**  $a \leq b \wedge b \leq c \implies a \leq c$

# Citations

Blah [Tai+, 1, chapter 3, sec. 2, theorem 3]. Blah blah [Tai+; TP]. Blah blah blah<sup>2</sup>.

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<sup>2</sup>This is a footnote

# Code

```
#include<bits/stdc++.h>
using namespace std;

int main(){
    return 0; // 返回 0
}
```

```
example : ( $\forall x, p\ x \rightarrow r$ )  $\rightarrow$  (( $\exists x, p\ x$ )  $\rightarrow r$ ) := by
intro h ⟨a, hpa⟩ -- you may also `rcases` explicitly
exact h a hpa
```

# Tables

$L_i \times C_j$	2	$\mathbb{N}$	$\mathbb{R}$
2	4	$\mathbb{N}$	$\mathbb{R}$
$\mathbb{N}$	$\mathbb{N}$	$\mathbb{N}$	?
$\mathbb{R}$	$\mathbb{R}$	?	$\mathbb{R}$

(a) Products

$L_i^{C_j}$	2	$\mathbb{N}$	$\mathbb{R}$
2	4	$\mathbb{R}$	$2^{\mathbb{R}}$
$\mathbb{N}$	$\mathbb{N}$	?	?
$\mathbb{R}$	$\mathbb{R}$	?	?

(b) Powers

Table: Several results on cardinality

Referable Table 1a.

# Figures

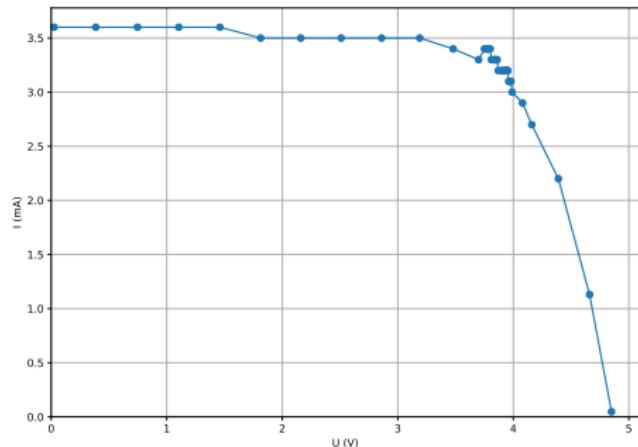
SUNQUARTEX

Figure: This is a figure

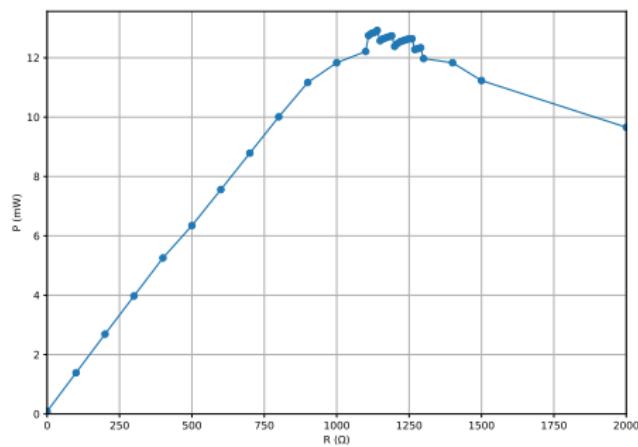
Referable Figure 1.

# Computations

Complex side by side. (Figure 2, Figure 2a, Figure 2b)



(a) I-U



(b) P-R

Figure: solar panel

# Theorems I

## Theorem (Test)

*This is a theorem.*

$$\sum_{d|n} \varphi(d) = n$$

## Proof.

This is a proof ended with a display math.

$$\sum_{d|n} \mu(d) = [n = 1]$$



# Theorems II

## Proof.

This is a really really really really really really really really really  
really really really really really really really really really long proof.

## Definition

*This is a definition.*

## Example (An example)

This is an example.

## Solution

This is the solution to the example.

# Theorems III

## Exercise

This is an exercise.

## Remark

This is a remark of Exercise 1.

## Lemma

*This is a lemma.*

## Corollary

*This is a corollary of Theorem 2.1.*

# Theorems IV

## Proposition

*This is a proposition.*

## Conjecture

*This is a conjecture.*

# References I

- [Tai+] Y Taigman et al. "Closing the gap to human-level performance in face verification. deepface". In: *Proceedings of the IEEE Computer Vision and Pattern Recognition (CVPR)*. Vol. 5, p. 6.
- [TP] M. Turk and A. Pentland. "Eigenfaces for Recognition". In: *Journal of Cognitive Neuroscience* 3.1 (), pp. 71–86.