

# SUNQUARTEX Example - enart

Subtitle Here

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Abstract

This is an abstract.

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## 1 First

This is a reference [Tai+, p. 1].

Example 1. Prove that

$$\mathbb{R} \times \mathbb{N} \approx \mathbb{N} \times \mathbb{R} \approx \mathbb{R}$$

Proof. Obvious as follows

$$\mathbb{R} \approx \mathbb{R} \times 2 \prec \mathbb{R} \times \mathbb{N} \prec \mathbb{R} \times \mathbb{R} \approx \mathbb{R} \implies \mathbb{R} \times \mathbb{N} \approx \mathbb{N} \times \mathbb{R} \approx \mathbb{R}$$

□

## 2 Second

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

(a) Cartesian (unsolved)

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

(b) Power (unsolved)

Table 1: Some Cardinality Results

## 3 Code

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\*Last modified on 2023-08-11.

```
#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
```

## References

- [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.