

# SunQuarTeX-enart Test

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

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

□

## 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

## 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.

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\*Last modified on 2023-08-11.