

Problem set 1: Introduction to the course (2023/2024, Patrick Schmitt)

Exercise 1. Let $\alpha \in \mathbb{Q}^n$. Prove that

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z}.$$

Solution: If $\alpha \in \mathbb{Z}^n$, then $\alpha = (\alpha_1, \dots, \alpha_n)$ with $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Z} \implies \alpha_i \in \mathbb{Q}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Q}^n$. Conversely, if $\alpha \in \mathbb{Q}^n$, then $\alpha = (\alpha_1, \dots, \alpha_n)$ with $\alpha_i \in \mathbb{Q}$ for all $i = 1, \dots, n$. Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Z}^n$.

Solution: Let $\alpha \in \mathbb{Q}^n$. Then $\alpha = (\alpha_1, \dots, \alpha_n)$ with $\alpha_i \in \mathbb{Q}$ for all $i = 1, \dots, n$. Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Z}^n$.

Exercise 2. Let $\alpha \in \mathbb{Q}^n$. Prove that $\alpha \in \mathbb{Z}^n$ if and only if $\alpha \in \mathbb{Z}$.

- Prove that $\alpha \in \mathbb{Z}^n$ implies $\alpha \in \mathbb{Z}$.
- Prove that $\alpha \in \mathbb{Z}$ implies $\alpha \in \mathbb{Z}^n$.
- Prove that $\alpha \in \mathbb{Z}^n$ implies $\alpha \in \mathbb{Z}$.
- Prove that $\alpha \in \mathbb{Z}$ implies $\alpha \in \mathbb{Z}^n$.

Exercise 3. Let $\alpha \in \mathbb{Q}^n$. Prove that

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z} \iff \alpha \in \mathbb{Q}^n \iff \alpha \in \mathbb{Z}.$$

Exercise 4. Let $\alpha \in \mathbb{Q}^n$. Prove that

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z} \iff \alpha \in \mathbb{Q}^n \iff \alpha \in \mathbb{Z}.$$

Solution: Let $\alpha \in \mathbb{Q}^n$. Then $\alpha = (\alpha_1, \dots, \alpha_n)$ with $\alpha_i \in \mathbb{Q}$ for all $i = 1, \dots, n$. Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Z}^n$. Conversely, if $\alpha \in \mathbb{Z}^n$, then $\alpha = (\alpha_1, \dots, \alpha_n)$ with $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Q}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Q}^n$.

Exercise 5. Let $\alpha \in \mathbb{Q}^n$. Prove that $\alpha \in \mathbb{Z}^n$ if and only if $\alpha \in \mathbb{Z}$.

Solution: Let $\alpha \in \mathbb{Q}^n$. Then $\alpha = (\alpha_1, \dots, \alpha_n)$ with $\alpha_i \in \mathbb{Q}$ for all $i = 1, \dots, n$.

Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Z}^n$.

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z} \iff \alpha \in \mathbb{Q}^n \iff \alpha \in \mathbb{Z}.$$

Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Z}^n$.

Exercise 6. Let $\alpha \in \mathbb{Q}^n$. Prove that

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z} \iff \alpha \in \mathbb{Q}^n \iff \alpha \in \mathbb{Z}.$$

Solution:

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z}.$$

$$\alpha \in \mathbb{Z} \iff \alpha \in \mathbb{Q}^n.$$

Solution: Let $\alpha \in \mathbb{Q}^n$. Then $\alpha = (\alpha_1, \dots, \alpha_n)$ with $\alpha_i \in \mathbb{Q}$ for all $i = 1, \dots, n$. Since \mathbb{Z} is a subring of \mathbb{Q} , we have $\alpha_i \in \mathbb{Z}$ for all $i = 1, \dots, n$. Hence $\alpha \in \mathbb{Z}^n$.

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z}.$$

$$\alpha \in \mathbb{Z} \iff \alpha \in \mathbb{Q}^n.$$

Exercise 7. Let $\alpha \in \mathbb{Q}^n$. Prove that

$$\alpha \in \mathbb{Z}^n \iff \alpha \in \mathbb{Z} \iff \alpha \in \mathbb{Q}^n \iff \alpha \in \mathbb{Z}.$$

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