2023010747 31-123 4732

乌勃教学HW14. 1. 由子b>a

因此存在双射函数

因此[0,门公[0,6]

2. 葉島 $A_1 = \{x \mid x \in NA (\exists t) (t \in NA x = t^2)\}$ $A_2 = \{x \mid x \in NA (\exists t) (t \in NA x = 2t)\}$ $A_3 = \{x \mid x \in NA (\exists t) (t \in NA x = 3t)\}$

3.0)
$$k^{m} \le (2^{k})^{m} = 2^{x \cdot m} = 2^{m} \le k^{m}$$

$$\therefore k^{m} \ge 2^{m}$$

四亩对称性.不妨没X≤l

$$\mathbb{Z} \sum_{k=1}^{\infty} \mathbb{Z} \left[\sum_{k=1}^{\infty} \mathbb{Z} \left(\mathbb{X}^{k} \right)^{m} \right] = \mathbb{Z}^{k} = \mathbb{Z}^{m}$$

4.对整数生标点,可与自然数进行一一配对

$$(-2,-2) \rightarrow (-2,-1) \rightarrow (-2,0) \rightarrow (-2,1) \rightarrow (-2,2) \rightarrow (-1,-1) \rightarrow (-1,1) \rightarrow (-1,1) \rightarrow (-1,2) \rightarrow (0,-2) \quad (0,-1) \quad (0,0) \rightarrow (0,1) \quad (0,2) \rightarrow (0,-1) \quad (1,-2) \quad (1,-1) \leftarrow (1,0) \leftarrow (1,1) \quad (1,2) \rightarrow (2,-2) \leftarrow (2,-1) \leftarrow (2,0) \leftarrow (2,1) \leftarrow (2,2) \rightarrow ($$

因此为可数集

6. R≈ R-N. 因为存在双射函数.