

Exercises

3.194 [269] We know from [26K] that the relation $n \subseteq m$ is total in \mathbb{N} . Prove that

$$\forall n, m \in \mathbb{N}, n \in m \iff (n \subseteq m \wedge n \neq m) \quad . \quad (3.194)$$

By [24K] this implies

$$\forall n, m \in \mathbb{N}, n \subseteq m \iff (n \in m \vee n = m) \quad .$$

Solution 1. [26B]