

t7\_finseq\_3  
(TMF4jAkwLrXDGx6QDLL1AaBqpbw6VSxf1xF)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. \neg(X0 \in X1) \wedge (r1\_tarski X1 X0) \quad (1)$$

Assume the following.

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow ((X0 = k6\_numbers) \vee (X0 \in k2\_finseq\_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0. r1\_tarski k1\_xboole\_0 X0 \quad (3)$$

Assume the following.

$$\forall X0. (r2\_wellord2 X0 k1\_xboole\_0) \Rightarrow (X0 = k1\_xboole\_0) \quad (4)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (5)$$

Assume the following.

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow (r2\_wellord2 (k2\_finseq\_1 X0) X0) \quad (6)$$

**Theorem 1**

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow ((k2\_finseq\_1 X0 = k1\_xboole\_0) \Leftrightarrow (\neg X0 \in k2\_finseq\_1 X0))$$