

## t5\_trees\_2

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_trees\_1 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. ((\neg v1\_xboole\_0 X1) \wedge (v1\_trees\_1 X1)) \Rightarrow (X0 \in X1) \Rightarrow (m2\_finseq\_1 X0 k5\_numbers) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X0)) \quad (3)$$

### Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v1\_trees\_1 X0)) \Rightarrow (\forall X1. \\ & ((\neg v1\_xboole\_0 X1) \wedge (v1\_trees\_1 X1)) \Rightarrow ((\forall X2. (m2\_finseq\_1 \\ & X2 k5\_numbers) \Rightarrow ((X2 \in X0) \Leftrightarrow (X2 \in X1))) \Rightarrow (X0 = X1))) \end{aligned}$$