

t10\_finsub\_1 (TMd-  
BgF4WxobZuu3NbGBw6SQLyMyno5nKFCe)

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Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_finsub\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v4\_finsub\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X2)) \Rightarrow (r1\_tarski X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. (\neg v1\_xboole\_0 (k5\_finsub\_1 X0)) \wedge (v4\_finsub\_1 (k5\_finsub\_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v4\_finsub\_1 X1) \Rightarrow ((X1 = k5\_finsub\_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow ((r1\_tarski X2 X0) \wedge (v1\_finset\_1 X2)))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

**Theorem 1**

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Rightarrow (r1\_tarski (k5\_finsub\_1 X0) (k5\_finsub\_1 X1))$$