

t134\_zfmisc\_1

(TMUqsPXZd8APZD4YzWi5y1w9no5fvVDUDdu)

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Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_tarski : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (k4\_tarski X0 X1 \in X2) \Rightarrow (X1 \in k3\_tarski (k3\_tarski X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (k4\_tarski X0 X1 \in X2) \Rightarrow (X0 \in k3\_tarski (k3\_tarski X2)) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. (k4\_tarski X0 X1 \in X2) \Rightarrow ((X0 \in k3\_tarski (k3\_tarski X2)) \wedge (X1 \in k3\_tarski (k3\_tarski X2)))$$