

# l3\_matrix16 (TMTdqxMgs- GNm673DBF7S1xuf4yJAXogFAhr)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4\_tarski X0 X1 \in k2\_zfmisc\_1 X2 X3) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X3)) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (v7\_ordinal1 X0) \Rightarrow (\forall X1. (v7\_ordinal1 X1) \Rightarrow (\forall X2. \\ (v7\_ordinal1 X2) \Rightarrow (((X1 \in k2\_finseq\_1 X0) \wedge (X2 \in k2\_finseq\_1 X0)) \Rightarrow \\ (k2\_xcmplx\_0 (k6\_int\_1 (k6\_xcmplx\_0 X2 X1) X0) np\_1 \in k2\_finseq\_1 \\ X0)))) \end{aligned} \quad (2)$$

## Theorem 1

$$\begin{aligned} \forall X0. (v7\_ordinal1 X0) \Rightarrow (\forall X1. (v7\_ordinal1 X1) \Rightarrow (\forall X2. \\ (v7\_ordinal1 X2) \Rightarrow (((k4\_tarski X1 X2 \in k2\_zfmisc\_1 (k2\_finseq\_1 \\ X0) (k2\_finseq\_1 X0)) \vee (k4\_tarski X2 X1 \in k2\_zfmisc\_1 (k2\_finseq\_1 \\ X0) (k2\_finseq\_1 X0))) \Rightarrow (k2\_xcmplx\_0 (k6\_int\_1 (k6\_xcmplx\_0 X2 \\ X1) X0) np\_1 \in k2\_finseq\_1 X0)))) \end{aligned}$$