

# l16\_matrix11

(TMNz7uhVfTttfAKQGkwBvStQaNe5Zepp4jf)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_sgraph1 : \iota \Rightarrow \iota$  be given. Let  $k2\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (v7\_ordinal1\ X1) \Rightarrow ((X0 \in k2\_sgraph1\ (k2\_finseq\_1 \\ X1)) \Leftrightarrow (\exists X2. (v7\_ordinal1\ X2) \wedge (\exists X3. (v7\_ordinal1 \\ X3) \wedge ((X2 \in k2\_finseq\_1\ X1) \wedge ((X3 \in k2\_finseq\_1\ X1) \wedge ((\neg r1\_xxreal\_0 \\ X3\ X2) \wedge (X0 = k2\_tarSKI\ X2\ X3)))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_xxreal\_0\ X0) \wedge (v1\_xxreal\_0\ X1)) \Rightarrow (r1\_xxreal\_0\ X0\ X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_tarSKI\ X0\ X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k2\_tarSKI\ X0\ X1 = k2\_tarSKI\ X1\ X0 \quad (4)$$

Assume the following.

$$\forall X0. (v7\_ordinal1\ X0) \Rightarrow (v1\_xxreal\_0\ X0) \quad (5)$$

**Theorem 1**

$$\begin{aligned} \forall X0. \forall X1. (v7\_ordinal1\ X1) \Rightarrow (\forall X2. (v7\_ordinal1 \\ X2) \Rightarrow (((X0 \in k2\_sgraph1\ (k2\_finseq\_1\ X1)) \wedge (X2 \in X0)) \Rightarrow ((X2 \in k2\_finseq\_1 \\ X1) \wedge (\exists X3. (v7\_ordinal1\ X3) \wedge ((X3 \in k2\_finseq\_1\ X1) \wedge ((X2 \neq \\ X3) \wedge (X0 = k2\_tarSKI\ X2\ X3)))))))) \end{aligned}$$