

t10\_sgraph1  
(TMJ4zvhR1g1vRSAD3SuVu5qhR8fCQNQ6GXh)

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Let  $k2\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_sgraph1 : \iota \Rightarrow \iota$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (X1 \in k2\_sgraph1 X0) \Leftrightarrow (((v1\_finset\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0))) \wedge (\exists X2. \exists X3. (X2 \in X0) \wedge ((X3 \in X0) \wedge ((X2 \neq X3) \wedge (X1 = k2\_tarSKI X2 X3))))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_tarSKI X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. (k2\_tarSKI X1 X2 \in k2\_sgraph1 X0) \Rightarrow ((X1 \in X0) \wedge ((X2 \in X0) \wedge (X1 \neq X2)))$$