

t21\_fuzzy\_4  
(TMGDEC9tCFgJjo7kbfexsfHejA7xVEkMcMb)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_fuzzy\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k5\_fuzzy\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.(\neg v1\_xboole\_0 X1) \Rightarrow \\ (\forall X2.(m1\_subset\_1 X2 (k2\_zfmisc\_1 X0 X1)) \Rightarrow ((k1\_seq\_1 ( \\ k4\_fuzzy\_2 X0 X1) X2 = k6\_numbers) \wedge (k1\_seq\_1 (k5\_fuzzy\_2 X0 X1) \\ X2 = np\_1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \tag{2}$$

**Theorem 1**

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.(\neg v1\_xboole\_0 X1) \Rightarrow \\ (\forall X2.\forall X3.(k4\_tarski X2 X3 \in k2\_zfmisc\_1 X0 X1) \Rightarrow (( \\ k1\_seq\_1 (k4\_fuzzy\_2 X0 X1) (k4\_tarski X2 X3) = k6\_numbers) \wedge (k1\_seq\_1 \\ (k5\_fuzzy\_2 X0 X1) (k4\_tarski X2 X3) = np\_1)))))) \end{aligned}$$