

t1_rearran1 (TMJeXvNr- JnNHq2UenZSVSe8m4oHS6LTdHph)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v3_rearran1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. k3_tarski (k1_zfmisc_1 X0) = X0 \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m2_finseq_1 X1 X0) \Rightarrow ((v3_rearran1 X1 X0) \Leftrightarrow \\ (\exists X2. (v1_finset_1 X2) \wedge ((X2 = k3_tarski X0) \wedge (k3_finseq_1 \\ X1 = k5_card_1 X2)))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_finset_1 X0)) \Rightarrow (\forall X1. \\ (m2_finseq_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v3_rearran1 X1 (k1_zfmisc_1 \\ X0)) \Leftrightarrow (k3_finseq_1 X1 = k5_card_1 X0))) \end{aligned}$$