

t73_finseq_4
(TMW3ZLC82n9o5qiBr7vfarmXXtNLbGdpER8)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k10_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r2_finseq_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v2_funct_1 X0) \Leftrightarrow (\forall X1.(X1 \in k10_xtuple_0 X0) \Rightarrow (r2_finseq_4 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(r2_finseq_4 X0 X1) \Leftrightarrow (k1_card_1 (k10_relat_1 X0 X1) = np_1)) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (((v2_funct_1 X1) \wedge (X0 \in k10_xtuple_0 X1)) \Rightarrow (k1_card_1 (k10_relat_1 X1 X0) = np_1))$$