

t55_funct_7
(TMbcbgdtcgCamvsutk5dxXB7fbvy3wZ8zxMg)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2. \\ & ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow (\forall X3. ((v1_relat_1 \\ & X3) \wedge (v1_funct_1 X3)) \Rightarrow (k4_funct_7 X0 (k11_finseq_1 X1 X2 X3) = k3_relat_1 \\ & (k6_partfun1 X0) (k3_relat_1 X1 (k3_relat_1 X2 X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow ((r1_tarski (k9_xtuple_0 X1) X0) \Rightarrow (k3_relat_1 (k4_relat_1 X0) X1 = X1)) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (v1_relat_1 X1) \Rightarrow (\forall X2. \\ & (v1_relat_1 X2) \Rightarrow (k3_relat_1 (k3_relat_1 X0 X1) X2 = k3_relat_1 \\ & X0 (k3_relat_1 X1 X2)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. k6_partfun1 X0 = k4_relat_1 X0 \quad (4)$$

Assume the following.

$$\forall X0. v1_relat_1 (k4_relat_1 X0) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. v1_relat_1 (k3_relat_1 X0 X1) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2. \\ & ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow (\forall X3. ((v1_relat_1 \\ & X3) \wedge (v1_funct_1 X3)) \Rightarrow ((\neg(\neg r1_tarski (k9_xtuple_0 X1) X0) \wedge ((\\ & \neg r1_tarski (k9_xtuple_0 (k3_relat_1 X1 X2)) X0) \wedge (\neg r1_tarski (\\ & k9_xtuple_0 (k3_relat_1 X1 (k3_relat_1 X2 X3))) X0))) \Rightarrow (k4_funct_7 \\ & X0 (k11_finseq_1 X1 X2 X3) = k3_relat_1 X1 (k3_relat_1 X2 X3)))))) \end{aligned}$$