

t27_funct_7
(TMci43GZePULPqmB72hgNM4ph3DSrSX4ZMG)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $r1_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2.(r1_funct_7 X0 X1 \\ X2) \Leftrightarrow (k5_relat_1 X0 (k6_subset_1 (k9_xtuple_0 X0) X2) = k5_relat_1 \\ X1 (k6_subset_1 (k9_xtuple_0 X1) X2)))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2.((v1_relat_1 X2) \wedge \\ (v1_funct_1 X2)) \Rightarrow (\forall X3.((r1_funct_7 X0 X1 X3) \wedge (r1_funct_7 \\ X1 X2 X3)) \Rightarrow (r1_funct_7 X0 X2 X3)))) \end{aligned}$$