

t78_funcop_1
(TMSi12rHQ8BoGv6sUK6BeAZFcNhCXjwgYrV)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_funct_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v3_funct_1 X0) \Leftrightarrow \\ (\forall X1. \forall X2. ((X1 \in k9_xtuple_0 X0) \wedge (X2 \in k9_xtuple_0 \\ X0)) \Rightarrow (k1_funct_1 X0 X1 = k1_funct_1 X0 X2))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v3_funct_1 X0) \wedge \\ (\neg v1_xboole_0 X0)))) \Rightarrow (\exists X1. \forall X2. (X2 \in k9_xtuple_0 \\ X0) \Rightarrow (k1_funct_1 X0 X2 = X1)) \end{aligned}$$