t4_funcop_1 (TMVdoG5ire8Vanf4uiDw6U4dSxAea6qcCUp)

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Let $k1\_funcop\_1 : \iota \Rightarrow \iota$ be given. Let $k12\_funct\_3 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k13\_funct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_partfun1 : \iota \Rightarrow \iota$ be given. Let $k4\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge (v1\_funct\_1\ X0)) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge (v1\_funct\_1\ X1)) \Rightarrow (k13\_funct\_3\ X0\ X1 = k1\_funcop\_1\ (k13\_funct\_3\ X1\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.k12\_funct\_3\ X0 = k13\_funct\_3\ (k6\_partfun1\ X0)\ (k6\_partfun1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.k6\_partfun1\ X0 = k4\_relat\_1\ X0 \tag{3}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ (k4\_relat\_1\ X0)) \wedge ((v4\_relat\_1\ (k4\_relat\_1\ X0)\ X0) \wedge ((v1\_funct\_1\ (k4\_relat\_1\ X0)) \wedge (v1\_partfun1\ (k4\_relat\_1\ X0)\ X0))) \tag{4}$$

Theorem 1 $\forall X0.k1\_funcop\_1\ (k12\_funct\_3\ X0) = k12\_funct\_3\ X0.$