t6_aofa_000 (TMG2ds2uNDJ1KYgU1nsc2V5hy6TRYRLdiSq)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k5\_aofa\_000 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k6\_partfun1 : \iota \Rightarrow \iota$ be given. Let $k1\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k4\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (k9\_funct\_7\ X0\ k6\_numbers = k6\_partfun1\ (k1\_relat\_1\ X0)) \tag{1}$$

Assume the following.

$$m1\_subset\_1\ k1\_xboole\_0\ k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1) \wedge (v1\_funct\_1\ X1)) \Rightarrow ((X1 = k4\_relat\_1\ X0) \Leftrightarrow ((k9\_xtuple\_0\ X1 = X0) \wedge (\forall X2.(X2 \in X0) \Rightarrow (k1\_funct\_1\ X1\ X2 = X2)))) \tag{3}$$

Assume the following.

$$\forall X0.k6\_partfun1\ X0 = k4\_relat\_1\ X0 \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{6}$$

Assume the following.

$$\forall X0.k9\_xtuple\_0\ (k4\_relat\_1\ X0) = X0 \tag{7}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ (k4\_relat\_1\ X0))\wedge(v1\_funct\_1\ (k4\_relat\_1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.v1\_relat\_1\ (k4\_relat\_1\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0)\Rightarrow(k1\_relat\_1\ X0 = k2\_xboole\_0\ (k9\_xtuple\_0\ X0)\ (k10\_xtuple\_0\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge(v1\_funct\_1\ X0))\Rightarrow(\forall X1.k5\_aofa\_000\ X0\ X1 = ReplSep\ (toset\ (\lambda X2:\iota.m1\_subset\_1\ X2\ k5\_numbers))\ (\lambda X2:\iota.X1\in k9\_xtuple\_0\ (k9\_funct\_7\ X0\ X2))\ (\lambda X2:\iota.\ k1\_funct\_1\ (k9\_funct\_7\ X0\ X2)\ X1)) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2\_xboole\_0\ X0\ X1)\Leftrightarrow(\forall X3.\ (X3\in X2)\Leftrightarrow((X3\in X0)\vee(X3\in X1))) \tag{12}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0)\wedge(v1\_funct\_1\ X0))\Rightarrow(\forall X1.(X1\in k9\_xtuple\_0\ X0)\Rightarrow(X1\in k5\_aofa\_000\ X0\ X1))$$