t1_unialg_2 (TMTHkVJFdQHvyR3T8oLpkJxfWHyzyBGGeVe)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_unialg\_1 : \iota \Rightarrow o$ be given. Let $v3\_unialg\_1 : \iota \Rightarrow o$ be given. Let $v4\_unialg\_1 : \iota \Rightarrow o$ be given. Let $l1\_unialg\_1 : \iota \Rightarrow o$ be given. Let $r1\_unialg\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_unialg\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_unialg\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v2\_margrel1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19\_margrel1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_unialg\_1\ X0) \wedge ((v4\_unialg\_1\ X0) \wedge (l1\_unialg\_1\ X0)))) \Rightarrow (m2\_finseq\_1\ (k1\_unialg\_1\ X0)\ k5\_numbers) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_unialg\_1\ X0) \wedge ((v4\_unialg\_1\ X0) \wedge (l1\_unialg\_1\ X0)))) \Rightarrow (\forall X1.(m2\_finseq\_1\ X1\ k5\_numbers) \Rightarrow ((X1 = k1\_unialg\_1\ X0) \Leftrightarrow ((k3\_finseq\_1\ X1 = k3\_finseq\_1\ (u1\_unialg\_1\ X0)) \wedge (\forall X2.(v7\_ordinal1\ X2) \Rightarrow ((X2 \in k4\_finseq\_1\ X1) \Rightarrow (\forall X3.((v1\_funct\_1\ X3) \wedge ((\neg v1\_xboole\_0\ X3) \wedge ((v2\_margrel1\ X3) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k3\_finseq\_2\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ X0))))))) \Rightarrow ((X3 = k1\_funct\_1\ (u1\_unialg\_1\ X0)\ X2) \Rightarrow (k1\_funct\_1\ X1\ X2 = k19\_margrel1\ X3)))))))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_unialg\_1\ X0) \wedge ((v3\_unialg\_1\ X0) \wedge ((v4\_unialg\_1\ X0) \wedge (l1\_unialg\_1\ X0))))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v2\_unialg\_1\ X1) \wedge ((v3\_unialg\_1\ X1) \wedge ((v4\_unialg\_1\ X1) \wedge (l1\_unialg\_1\ X1))))) \Rightarrow ((r1\_unialg\_2\ X0\ X1) \Leftrightarrow (k1\_unialg\_1\ X0 = k1\_unialg\_1\ X1))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_unialg\_1\ X0)\wedge((v3\_unialg\_1\ X0)\wedge((v4\_unialg\_1\ X0)\wedge(l1\_unialg\_1\ X0)))))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v2\_unialg\_1\ X1)\wedge((v3\_unialg\_1\ X1)\wedge((v4\_unialg\_1\ X1)\wedge(l1\_unialg\_1\ X1)))))\Rightarrow((r1\_unialg\_2\ X0\ X1)\Rightarrow(k3\_finseq\_1\ (u1\_unialg\_1\ X0) = k3\_finseq\_1\ (u1\_unialg\_1\ X1))))$$