t44_group_4 (TMSaL9Z3b69tsqgst9LhHWbz74uJcw1toZ2)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_group\_1 : \iota \Rightarrow o$ be given. Let $v3\_group\_1 : \iota \Rightarrow o$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $m1\_group\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11\_group\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_group\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_group\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_group\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_group\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \Rightarrow (\forall X1.(m1\_group\_2\ X1\ X0) \Rightarrow (\forall X2.(m1\_group\_2\ X2\ X0) \Rightarrow ((k7\_group\_4\ X0\ X1\ X2 = k2\_group\_2\ X0\ (k8\_group\_2\ X0\ X1)\ (k8\_group\_2\ X0\ X2)) \wedge ((k7\_group\_4\ X0\ X1\ X2 = k12\_group\_2\ X0\ X1\ (k8\_group\_2\ X0\ X2)) \wedge (k7\_group\_4\ X0\ X1\ X2 = k11\_group\_2\ X0\ X2\ (k8\_group\_2\ X0\ X1))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.(m1\_group\_2\ X2\ X0) \Rightarrow (\forall X3.(m1\_group\_2\ X3\ X0) \Rightarrow (k11\_group\_2\ X0\ X3\ (k12\_group\_2\ X0\ X2\ X1) = k12\_group\_2\ X0\ X2\ (k11\_group\_2\ X0\ X3\ X1))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \wedge (m1\_group\_2\ X1\ X0)) \Rightarrow (m1\_subset\_1\ (k8\_group\_2\ X0\ X1)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \Rightarrow (\forall X1.(m1\_group\_2\ X1\ X0) \Rightarrow (\forall X2.(m1\_group\_2\ X2\ X0) \Rightarrow (\forall X3.(m1\_group\_2\ X3\ X0) \Rightarrow (k11\_group\_2\ X0\ X3\ (k7\_group\_4\ X0\ X1\ X2) = k12\_group\_2\ X0\ X1\ (k7\_group\_4\ X0\ X2\ X3)))))$$