t9_matrix_7 (TMJfQ6cwXyo2QwHATCpYZtsb4gMvB13TLs5)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k13\_matrix\_2 : \iota \Rightarrow \iota$ be given. Let $m1\_matrix\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12\_matrix\_2 : \iota \Rightarrow \iota$ be given. Let $k6\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k11\_matrix\_2 : \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $u2\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v15\_algstr\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ X0\ X0)\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ X0))))) \wedge ((m1\_subset\_1\ X2\ X0) \wedge (m1\_subset\_1\ X3\ X0))) \Rightarrow (k5\_binop\_1\ X0\ X1\ X2\ X3 = k1\_binop\_1\ X1\ X2\ X3) \tag{2}$$

Assume the following.

$$\forall X0.(l3\_algstr\_0\ X0) \Rightarrow ((v1\_funct\_1\ (u2\_algstr\_0\ X0)) \wedge ((v1\_funct\_2\ (u2\_algstr\_0\ X0)\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ X0)) \wedge (m1\_subset\_1\ (u2\_algstr\_0\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ X0))))) \tag{3}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((v15\_algstr\_0\ (k13\_matrix\_2\ X0)) \wedge (l3\_algstr\_0\ (k13\_matrix\_2\ X0))) \tag{4}$$

Assume the following.

$$\forall X0.(l3\_algstr\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (k6\_algstr\_0\ X0\ X1\ X2 = k5\_binop\_1\ (u1\_struct\_0\ X0)\ (u2\_algstr\_0\ X0)\ X1\ X2))) \tag{5}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.((v15\_algstr\_0\ X1)\wedge (l3\_algstr\_0\ X1))\Rightarrow((X1 = k13\_matrix\_2\ X0)\Leftrightarrow((u1\_struct\_0\ X1 = k12\_matrix\_2\ X0)\wedge(\forall X2.(m1\_matrix\_2\ X2\ (k12\_matrix\_2\ X0))\Rightarrow(\forall X3.(m1\_matrix\_2\ X3\ (k12\_matrix\_2\ X0))\Rightarrow(k1\_binop\_1\ (u2\_algstr\_0\ X1)\ X2\ X3 = k1\_partfun1\ (k2\_finseq\_1\ (k11\_matrix\_2\ (k12\_matrix\_2\ X0)))\ (k2\_finseq\_1\ (k11\_matrix\_2\ (k12\_matrix\_2\ X0)))\ (k2\_finseq\_1\ (k11\_matrix\_2\ (k12\_matrix\_2\ X0)))\ (k2\_finseq\_1\ (k11\_matrix\_2\ (k12\_matrix\_2\ X0)))\ X2\ X3)))))) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{7}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k13\_matrix\_2\ X0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k13\_matrix\_2\ X0)))\Rightarrow(\forall X3.(m1\_matrix\_2\ X3\ (k12\_matrix\_2\ X0))\Rightarrow(\forall X4.(m1\_matrix\_2\ X4\ (k12\_matrix\_2\ X0))\Rightarrow(((X1 = X3)\wedge(X2 = X4))\Rightarrow(k6\_algstr\_0\ (k13\_matrix\_2\ X0)\ X1\ X2 = k1\_partfun1\ (k2\_finseq\_1\ (k11\_matrix\_2\ (k12\_matrix\_2\ X0)))\ (k2\_finseq\_1\ (k11\_matrix\_2\ (k12\_matrix\_2\ X0)))\ (k2\_finseq\_1\ (k11\_matrix\_2\ (k12\_matrix\_2\ X0)))\ X3\ X4))))))$$