t48_ec_pf_2 (TMa1p3kSYTqX9xkRTXSHUVETvzmtLxpdJjv)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_int\_2 : \iota \Rightarrow o$ be given. Let $v1\_ec\_pf\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_5 : \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k9\_int\_3 : \iota \Rightarrow \iota$ be given. Let $k1\_ec\_pf\_2 : \iota \Rightarrow \iota$ be given. Let $k3\_ec\_pf\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_ec\_pf\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_ec\_pf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_ec\_pf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_ec\_pf\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k7\_ec\_pf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_ec\_pf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_ec\_pf\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_ec\_pf\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v7\_ordinal1\ X0) \wedge ((v1\_int\_2\ X0) \wedge (v1\_ec\_pf\_2\ X0\ np\_\_5))) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k9\_int\_3\ X0))\ (u1\_struct\_0\ (k9\_int\_3\ X0)))\ (k1\_ec\_pf\_2\ X0)) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ (k3\_ec\_pf\_1\ (k9\_int\_3\ X0))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))) \Rightarrow ((k6\_ec\_pf\_2\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)\ X2 \neq k6\_numbers) \Rightarrow (k7\_ec\_pf\_2\ X0\ (k9\_ec\_pf\_2\ X0\ X1\ (k8\_ec\_pf\_2\ X0\ X1)\ X2) = k1\_funct\_1\ (k8\_ec\_pf\_2\ X0\ X1)\ (k7\_ec\_pf\_2\ X0\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0) \wedge ((v1\_int\_2\ X0) \wedge (v1\_ec\_pf\_2\ X0\ np\_\_5))) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k9\_int\_3\ X0))\ (u1\_struct\_0\ (k9\_int\_3\ X0)))\ (k1\_ec\_pf\_2\ X0)) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ (k3\_ec\_pf\_1\ (k9\_int\_3\ X0))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))) \Rightarrow (\forall X3.(m2\_subset\_1\ X3\ (k3\_ec\_pf\_1\ (k9\_int\_3\ X0))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))) \Rightarrow ((r1\_ec\_pf\_1\ X0\ X2\ X3) \Leftrightarrow (k7\_ec\_pf\_2\ X0\ X2 = k7\_ec\_pf\_2\ X0\ X3))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ X0\ X1)\Leftrightarrow(m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0)\wedge((v1\_int\_2\ X0)\wedge(v1\_ec\_pf\_2\ X0\ np\_\_5)))\Rightarrow (\neg v1\_xboole\_0\ (k1\_ec\_pf\_2\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((v7\_ordinal1\ X0)\wedge ((v1\_int\_2\ X0)\wedge(v1\_ec\_pf\_2\ X0\ np\_\_5)))\wedge((m1\_subset\_1\ X1\ (k1\_ec\_pf\_2\ X0))\wedge(((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)))))))\wedge(m1\_subset\_1\ X3\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))))))\Rightarrow(m2\_subset\_1\ (k9\_ec\_pf\_2\ X0\ X1\ X2\ X3)\ (k3\_ec\_pf\_1\ (k9\_int\_3\ X0))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(((v7\_ordinal1\ X0)\wedge((v1\_int\_2\ X0)\wedge(v1\_ec\_pf\_2\ X0\ np\_\_5)))\wedge(m1\_subset\_1\ X1\ (k1\_ec\_pf\_2\ X0)))\Rightarrow((v1\_funct\_1\ (k8\_ec\_pf\_2\ X0\ X1))\wedge((v1\_funct\_2\ (k8\_ec\_pf\_2\ X0\ X1)\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)))\wedge(m1\_subset\_1\ (k8\_ec\_pf\_2\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1))))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v7\_ordinal1\ X0)\wedge(v1\_int\_2\ X0))\wedge((m1\_subset\_1\ X1\ (u1\_struct\_0\ (k9\_int\_3\ X0)))\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k9\_int\_3\ X0)))))\Rightarrow((\neg v1\_xboole\_0\ (k6\_ec\_pf\_1\ X0\ X1\ X2))\wedge(m1\_subset\_1\ (k6\_ec\_pf\_1\ X0\ X1\ X2)\ (k1\_zfmisc\_1\ (k3\_ec\_pf\_1\ (k9\_int\_3\ X0))))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(((v7\_ordinal1\ X0)\wedge((v1\_int\_2\ X0)\wedge(v1\_ec\_pf\_2\ X0\ np\_\_5)))\wedge(m1\_subset\_1\ X1\ (k1\_ec\_pf\_2\ X0)))\Rightarrow(m1\_subset\_1\ (k3\_ec\_pf\_2\ X0\ X1)\ (u1\_struct\_0\ (k9\_int\_3\ X0))) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.(((v7\_ordinal1\ X0)\wedge((v1\_int\_2\ X0)\wedge(v1\_ec\_pf\_2\ X0\ np\_\_5)))\wedge(m1\_subset\_1\ X1\ (k1\_ec\_pf\_2\ X0)))\Rightarrow(m1\_subset\_1\ (k2\_ec\_pf\_2\ X0\ X1)\ (u1\_struct\_0\ (k9\_int\_3\ X0))) \tag{9}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0)\wedge((v1\_int\_2\ X0)\wedge(v1\_ec\_pf\_2\ X0\ np\_\_5)))\Rightarrow(m1\_subset\_1\ (k1\_ec\_pf\_2\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k9\_int\_3\ X0))\ (u1\_struct\_0\ (k9\_int\_3\ X0))))) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{11}$$

Theorem 1

$$\forall X0.((v7\_ordinal1\ X0)\wedge((v1\_int\_2\ X0)\wedge(v1\_ec\_pf\_2\ X0\ np\_\_5)))\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k9\_int\_3\ X0))\ (u1\_struct\_0\ (k9\_int\_3\ X0)))\ (k1\_ec\_pf\_2\ X0))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ (k3\_ec\_pf\_1\ (k9\_int\_3\ X0))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)))\Rightarrow(\forall X3.(m2\_subset\_1\ X3\ (k3\_ec\_pf\_1\ (k9\_int\_3\ X0))\ (k6\_ec\_pf\_1\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)))\Rightarrow(\neg(k6\_ec\_pf\_2\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)\ X2\neq k6\_numbers)\wedge((k6\_ec\_pf\_2\ X0\ (k2\_ec\_pf\_2\ X0\ X1)\ (k3\_ec\_pf\_2\ X0\ X1)\ X3\neq k6\_numbers)\wedge(\neg(k7\_ec\_pf\_2\ X0\ X2 = k1\_funct\_1\ (k8\_ec\_pf\_2\ X0\ X1)\ (k7\_ec\_pf\_2\ X0\ X3))\Leftrightarrow(r1\_ec\_pf\_1\ X0\ X2\ (k9\_ec\_pf\_2\ X0\ X1\ (k8\_ec\_pf\_2\ X0\ X1)\ X3))))))))$$