t61_aff_4 (TMaB6PLsJFFUhtssajq6gCd26w9robWT2fR)

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Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_diraf : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_aff\_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_aff\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((r1\_aff\_4\ X0\ X1\ X2) \wedge (r1\_aff\_4\ X0\ X2\ X3)) \Rightarrow ((X2 = k1\_xboole\_0) \vee (r1\_aff\_4\ X0\ X1\ X3))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\neg(v1\_aff\_4\ X1\ X0) \wedge (X1 = k1\_xboole\_0))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((v1\_aff\_4\ X1\ X0) \wedge ((v1\_aff\_4\ X2\ X0) \wedge (r1\_aff\_4\ X0\ X1\ X2))) \Rightarrow (r1\_aff\_4\ X0\ X2\ X1)))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v7\_struct\_0\ X0)\wedge((v1\_diraf\ X0)\wedge(l1\_analoaf\ X0)))\Rightarrow$$
$$(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow$$
$$(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow$$
$$(\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow$$
$$(((v1\_aff\_4\ X1\ X0)\wedge((v1\_aff\_4\ X2\ X0)\wedge(v1\_aff\_4\ X3\ X0)))\Rightarrow(((\neg($$
$$r1\_aff\_4\ X0\ X1\ X2)\wedge(r1\_aff\_4\ X0\ X2\ X3))\wedge((\neg(r1\_aff\_4\ X0\ X1\ X2)\wedge($$
$$r1\_aff\_4\ X0\ X3\ X2))\wedge((\neg(r1\_aff\_4\ X0\ X2\ X1)\wedge(r1\_aff\_4\ X0\ X2\ X3))\wedge$$
$$(\neg(r1\_aff\_4\ X0\ X2\ X1)\wedge(r1\_aff\_4\ X0\ X3\ X2)))))\vee(r1\_aff\_4\ X0\ X1\ X3))))))$$