t32_aff_1 (TMStACfw-pWB5KDqKyC31LZLrvB7TSGWrp7v)

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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 $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $r2\_aff\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2\_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_aff\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ X0)) \Rightarrow (\neg(X1 \neq X2) \wedge ((\neg(\neg(r2\_analoaf\ X0\ X1\ X2\ X3\ X4) \wedge (r2\_analoaf\ X0\ X1\ X2\ X5\ X6)) \wedge ((\neg(r2\_analoaf\ X0\ X1\ X2\ X3\ X4) \wedge (r2\_analoaf\ X0\ X5\ X6\ X1\ X2)) \wedge ((\neg(r2\_analoaf\ X0\ X3\ X4\ X1\ X2) \wedge (r2\_analoaf\ X0\ X5\ X6\ X1\ X2)) \wedge (\neg(r2\_analoaf\ X0\ X3\ X4\ X1\ X2) \wedge (r2\_analoaf\ X0\ X1\ X2\ X5\ X6))))) \wedge (\neg r2\_analoaf\ X0\ X3\ X4\ X5\ X6)))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.((v1\_aff\_1\ X3\ X0) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))) \Rightarrow ((r2\_aff\_1\ X0\ X1\ X2\ X3) \Leftrightarrow (\exists X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \wedge (\exists X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0)) \wedge ((X4 \neq X5) \wedge ((X4 \in X3) \wedge ((X5 \in X3) \wedge (r2\_analoaf\ X0\ X1\ X2\ X4\ X5)))))))))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow ((\exists X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \wedge (\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \wedge (r2\_aff\_1\ X0\ X2\ X3\ X1))) \Rightarrow (v1\_aff\_1\ X1\ X0))) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v7\_struct\_0\ X0)\wedge((v1\_diraf\ X0)\wedge(l1\_analoaf\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(((r2\_aff\_1\ X0\ X1\ X2\ X5)\wedge(r2\_analoaf\ X0\ X1\ X2\ X3\ X4))\Rightarrow((X1 = X2)\vee(r2\_aff\_1\ X0\ X3\ X4\ X5)))))))))$$