l4_aff_1 (TMX6VbvRFBf3xGTDY5JMyft5e6LoBcRqHpD)

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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 $r2\_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

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

Theorem 1

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