t58_analmetr (TMb5toonhmP3BxdN4ARVHUvEUhxk3K4hwoe)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_analmetr : \iota \Rightarrow o$ be given. Let $l1\_analmetr : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r4\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2\_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_diraf : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $k3\_analmetr : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1\_analoaf : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_analoaf : \iota \Rightarrow \iota$ be given. Let $v1\_analoaf : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_analmetr\ X0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (\forall X7.(m1\_subset\_1\ X7\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (\forall X8.(m1\_subset\_1\ X8\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (((X1 = X5) \wedge ((X2 = X6) \wedge ((X3 = X7) \wedge (X4 = X8)))) \Rightarrow ((r2\_analoaf\ X0\ X1\ X2\ X3\ X4) \Leftrightarrow (r2\_analoaf\ (k3\_analmetr\ X0)\ X5\ X6\ X7\ X8)))))))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ (k2\_zfmisc\_1\ X0\ X0)))) \Rightarrow (\forall X2.\forall X3.(g1\_analoaf\ X0\ X1 = g1\_analoaf\ X2\ X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_analoaf\ X0)\Rightarrow(m1\_subset\_1\ (u1\_analoaf\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))) \tag{4}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analmetr\ X0))\Rightarrow((v1\_analoaf\ (k3\_analmetr\ X0))\wedge(l1\_analoaf\ (k3\_analmetr\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analmetr\ X0))\Rightarrow((v2\_analmetr\ X0)\Leftrightarrow(((\neg v7\_struct\_0\ (g1\_analoaf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0)))\wedge((v1\_diraf\ (g1\_analoaf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0)))\wedge(l1\_analoaf\ (g1\_analoaf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0)))))\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(\forall X7.(m1\_subset\_1\ X7\ (u1\_struct\_0\ X0))\Rightarrow(\forall X8.(m1\_subset\_1\ X8\ (u1\_struct\_0\ X0))\Rightarrow(((r4\_analmetr\ X0\ X1\ X2\ X1\ X2)\Rightarrow(X1=X2))\wedge((r4\_analmetr\ X0\ X1\ X2\ X3\ X3)\wedge(((r4\_analmetr\ X0\ X1\ X2\ X3\ X4)\Rightarrow((r4\_analmetr\ X0\ X1\ X2\ X4\ X3)\wedge(r4\_analmetr\ X0\ X3\ X4\ X1\ X2)))\wedge((\neg(r4\_analmetr\ X0\ X1\ X2\ X5\ X6)\wedge((r2\_analoaf\ X0\ X1\ X2\ X7\ X8)\wedge((\neg r4\_analmetr\ X0\ X5\ X6\ X7\ X8)\wedge(X1\neq X2))))\wedge(((r4\_analmetr\ X0\ X1\ X2\ X5\ X6)\wedge(r4\_analmetr\ X0\ X1\ X2\ X5\ X8))\Rightarrow(r4\_analmetr\ X0\ X1\ X2\ X6\ X8)))))))))))))\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(\neg(X1\neq X2)\wedge(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0))\Rightarrow(\neg(r2\_analoaf\ X0\ X1\ X2\ X1\ X4)\wedge(r4\_analmetr\ X0\ X1\ X2\ X4\ 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((r4\_analmetr\ X0\ X1\ X2\ X3\ X4)\wedge(X3\neq X4)))))))))) \tag{6}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analmetr\ X0))\Rightarrow(k3\_analmetr\ X0 = g1\_analoaf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(l1\_analoaf\ X0)\Rightarrow((v1\_analoaf\ X0)\Rightarrow(X0 = g1\_analoaf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0))) \tag{8}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_analmetr\ X0)\wedge(l1\_analmetr\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0))\Rightarrow((r4\_analmetr\ X0\ X1\ X2\ X3\ X3)\wedge((r4\_analmetr\ X0\ X3\ X3\ X1\ X2)\wedge((r2\_analoaf\ X0\ X1\ X2\ X3\ X3)\wedge(r2\_analoaf\ X0\ X3\ X3\ X1\ X2)))))))$$