t30_pasch (TMQA3wXdFznPq1rhsXhsr8x2HYThdf9EV7G)

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Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_analoaf : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $v5\_pasch : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r1\_diraf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3\_diraf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v2\_analoaf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0)) \Rightarrow (\neg (r1\_diraf\ X0\ X1\ X2\ X3) \wedge ((r1\_diraf\ X0\ X1\ X4\ X5) \wedge ((\neg r3\_diraf\ X0\ X1\ X2\ X5) \wedge (\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ X0)) \Rightarrow (\neg (r1\_diraf\ X0\ X2\ X6\ X5) \wedge (r1\_diraf\ X0\ X4\ X6\ X3)))))))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v2\_analoaf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow ((v5\_pasch\ X0) \Leftrightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ X0)) \Rightarrow (\neg (r1\_diraf\ X0\ X1\ X2\ X4) \wedge ((r1\_diraf\ X0\ X1\ X5\ X3) \wedge ((\neg r3\_diraf\ X0\ X1\ X2\ X3) \wedge (\forall X7.(m1\_subset\_1\ X7\ (u1\_struct\_0\ X0)) \Rightarrow (\neg (r1\_diraf\ X0\ X2\ X7\ X3) \wedge (r1\_diraf\ X0\ X5\ X7\ X4)))))))))))) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v2\_analoaf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (v5\_pasch\ X0)$$