

## t28\_pasch

(TMP47NinQWp54VrNn7szBnweAMks1Qzwwqzx)

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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  $v4\_pasch : \iota \Rightarrow o$  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.

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

Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v7\_struct\_0 X0) \wedge ((v2\_analoaf X0) \wedge (l1\_analoaf \\
 & \quad X0))) \Rightarrow ((v4\_pasch X0) \Leftrightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 \\
 & \quad X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. \\
 & \quad (m1\_subset\_1 X3 (u1\_struct\_0 X0)) \Rightarrow (\forall X4.(m1\_subset\_1 X4 \\
 & \quad (u1\_struct\_0 X0)) \Rightarrow (\forall X5.(m1\_subset\_1 X5 (u1\_struct\_0 X0)) \Rightarrow \\
 & \quad (\forall X6.(m1\_subset\_1 X6 (u1\_struct\_0 X0)) \Rightarrow (\neg(r1\_diraf X0 \\
 & \quad X1 X2 X4) \wedge (r1\_diraf X0 X2 X5 X3) \wedge (\neg r3\_diraf X0 X1 X2 X3) \wedge (\forall X7. \\
 & \quad (m1\_subset\_1 X7 (u1\_struct\_0 X0)) \Rightarrow (\neg(r1\_diraf X0 X1 X7 X3) \wedge (r1\_diraf \\
 & \quad X0 X7 X5 X4))))))))))
 \end{aligned} \tag{2}$$

### Theorem 1

$$\forall X0.((\neg v7\_struct\_0 X0) \wedge ((v2\_analoaf X0) \wedge (l1\_analoaf X0))) \Rightarrow (v4\_pasch X0)$$