

t12\_projpl\_1  
(TMSY4F99NYkqNrQGEqAwpYttyEzzbRFjxYx)

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Let  $l1\_incsp\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_incsp\_1 : \iota \Rightarrow \iota$  be given. Let  $r4\_projpl\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(l1\_incsp\_1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_incsp\_1 \\ & \quad X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_incsp\_1 X0)) \Rightarrow (\forall X3. \\ & \quad (m1\_subset\_1 X3 (u1\_incsp\_1 X0)) \Rightarrow ((r4\_projpl\_1 X0 X1 X2 X3) \Rightarrow (( \\ & \quad r4\_projpl\_1 X0 X1 X3 X2) \wedge ((r4\_projpl\_1 X0 X2 X1 X3) \wedge ((r4\_projpl\_1 \\ & \quad X0 X2 X3 X1) \wedge ((r4\_projpl\_1 X0 X3 X1 X2) \wedge (r4\_projpl\_1 X0 X3 X2 X1)))))))))) \\ & \hspace{15em} (1) \end{aligned}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(l1\_incsp\_1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_incsp\_1 \\ & \quad X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_incsp\_1 X0)) \Rightarrow (\forall X3. \\ & \quad (m1\_subset\_1 X3 (u1\_incsp\_1 X0)) \Rightarrow ((\neg r4\_projpl\_1 X0 X1 X2 X3) \Rightarrow ( \\ & \quad (\neg r4\_projpl\_1 X0 X1 X3 X2) \wedge ((\neg r4\_projpl\_1 X0 X2 X1 X3) \wedge ((\neg r4\_projpl\_1 \\ & \quad X0 X2 X3 X1) \wedge ((\neg r4\_projpl\_1 X0 X3 X1 X2) \wedge (\neg r4\_projpl\_1 X0 X3 X2 X1)))))))))) \end{aligned}$$