

# l46\_pcs\_0 (TMNZKFRBssvc- Drzq6ogytFYKdKyxuHuLoAd)

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Let  $l2\_pcs\_0 : \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $r3\_pcs\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_orders\_2 : \iota \Rightarrow \iota$  be given. Let  $u1\_pcs\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (l2\_pcs\_0 X0) \Rightarrow (\forall X1. (l2\_pcs\_0 X1) \Rightarrow ((r3\_pcs\_0 \\ X0 X1) \Leftrightarrow ((r1\_tarski (u1\_struct\_0 X0) (u1\_struct\_0 X1)) \wedge ((r1\_relset\_1 \\ (u1\_struct\_0 X0) (u1\_struct\_0 X0) (u1\_orders\_2 X0) (u1\_orders\_2 \\ X1)) \wedge (r1\_relset\_1 (u1\_struct\_0 X0) (u1\_struct\_0 X0) (u1\_pcs\_0 \\ X0) (u1\_pcs\_0 X1)))))) \end{aligned} \quad (3)$$

**Theorem 1**

$$\begin{aligned} \forall X0. (l2\_pcs\_0 X0) \Rightarrow (\forall X1. (l2\_pcs\_0 X1) \Rightarrow (\forall X2. \\ ((X2 \in u1\_struct\_0 X0) \wedge (r3\_pcs\_0 X0 X1)) \Rightarrow (m1\_subset\_1 X2 (u1\_struct\_0 \\ X1)))) \end{aligned}$$