

t14\_relat\_1

(TMQd7XpoXkh3UrK5zsTyGwFVvGUyGqQELcZ)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. r1\_tarski (k4\_xboole\_0 (k10\_xtuple\_0 X0) \\ & (k10\_xtuple\_0 X1)) (k10\_xtuple\_0 (k4\_xboole\_0 X0 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k6\_subset\_1 X0 X1 = k4\_xboole\_0 X0 X1 \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (v1\_relat\_1 X0) \Rightarrow (\forall X1. (v1\_relat\_1 X1) \Rightarrow (r1\_tarski \\ & (k6\_subset\_1 (k10\_xtuple\_0 X0) (k10\_xtuple\_0 X1)) (k10\_xtuple\_0 \\ & (k6\_subset\_1 X0 X1)))) \end{aligned}$$