

t58\_relat\_1 (TMGACmUqr-  
ryN6CpAdkXJKhwVxw4eQJCdmxF)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (v1\_relat\_1 X2) \Rightarrow ((X0 \in k9\_xtuple\_0 \\ (k5\_relat\_1 X2 X1)) \Leftrightarrow ((X0 \in X1) \wedge (X0 \in k9\_xtuple\_0 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow \\ (X2 \in X1)) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (r1\_tarski (k9\_xtuple\_0 \\ (k5\_relat\_1 X1 X0)) X0) \end{aligned}$$