

t1\_valued\_0  
(TMMYt1rRrJckwU7AsLgiHFau2yU3BYoFxbwq)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_valued\_0 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_numbers : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X2)) \Rightarrow (r1\_tarski X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow (\forall X1. (v1\_relat\_1 X1) \Rightarrow ((r1\_tarski X0 X1) \Rightarrow ((r1\_tarski (k9\_xtuple\_0 X0) (k9\_xtuple\_0 X1)) \wedge (r1\_tarski (k10\_xtuple\_0 X0) (k10\_xtuple\_0 X1)))))) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow ((v1\_valued\_0 X0) \Leftrightarrow (r1\_tarski (k10\_xtuple\_0 X0) k2\_numbers)) \quad (3)$$

**Theorem 1**

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow (\forall X1. ((v1\_relat\_1 X1) \wedge (v1\_valued\_0 X1)) \Rightarrow ((r1\_tarski X0 X1) \Rightarrow (v1\_valued\_0 X0)))$$