

## t29\_rewrite1

(TMLTJ2ziPWUWLYz2GFmm8gL9h41ee9cYwFg)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r2\_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.\forall X2.(r1\_rewrite1 X0 X1 X2) \Rightarrow ((r2\_rewrite1 X0 X1 X2) \wedge (r2\_rewrite1 X0 X2 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.\forall X2.(k4\_tarski X1 X2 \in X0) \Rightarrow (r1\_rewrite1 X0 X1 X2)) \quad (2)$$

**Theorem 1**

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.\forall X2.(k4\_tarski X1 X2 \in X0) \Rightarrow (r2\_rewrite1 X0 X1 X2))$$