

t403\_xxreal\_1  
(TMKEQ1ir987pHf3JrJSCQA2jBzp17oeuynR)

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Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ (v1\_xxreal\_0 X2) \Rightarrow ((\neg r1\_xxreal\_0 X1 X0) \Rightarrow (k6\_subset\_1 (k1\_xxreal\_1 \\ X2 X1) (k3\_xxreal\_1 X0 X1) = k1\_xxreal\_1 X2 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (k1\_xxreal\_1 X0 X0 = k1\_tarski X0) \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (( \\ \neg r1\_xxreal\_0 X1 X0) \Rightarrow (k6\_subset\_1 (k1\_xxreal\_1 X0 X1) (k3\_xxreal\_1 \\ X0 X1) = k1\_tarski X0))) \end{aligned}$$