

t3\_topmetr  
(TMYmtSvQon65dmLzeTQRj6wdRDE2yF7QMAR)

October 27, 2020

Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $m1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & (m1\_pre\_topc X1 X0) \Rightarrow (\forall X2.(m1\_pre\_topc X2 X0) \Rightarrow ((r1\_tarski \\ & (u1\_struct\_0 X1) (u1\_struct\_0 X2)) \Leftrightarrow (m1\_pre\_topc X1 X2)))) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & (m1\_pre\_topc X1 X0) \Rightarrow (\forall X2.(m1\_pre\_topc X2 X0) \Rightarrow ((r1\_tarski \\ & (u1\_struct\_0 X1) (u1\_struct\_0 X2)) \Rightarrow (m1\_pre\_topc X1 X2)))) \end{aligned}$$