

t15\_topalg\_6 (TM-  
Ryj5BXDCcAEHEzqGkjyuAKLnN3595wEJp)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v1\_topalg\_6 : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $m1\_borsuk\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r3\_borsuk\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ & X0))) \Rightarrow ((v1\_topalg\_6 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 \\ & X0)) \Rightarrow (\forall X2. (m1\_borsuk\_2 X2 X0 X1 X1) \Rightarrow (\forall X3. (m1\_borsuk\_2 \\ & X3 X0 X1 X1) \Rightarrow (r3\_borsuk\_2 X0 X1 X1 X2 X3)))))) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge ((v1\_topalg\_6 \\ & X0) \wedge (l1\_pre\_topc X0)))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 \\ & X0)) \Rightarrow (\forall X2. (m1\_borsuk\_2 X2 X0 X1 X1) \Rightarrow (\forall X3. (m1\_borsuk\_2 \\ & X3 X0 X1 X1) \Rightarrow (r3\_borsuk\_2 X0 X1 X1 X2 X3)))) \end{aligned}$$