

t7\_waybel29

(TMQR4qxyYctgQFsvtYRyttRWqHBVdcFTyWe)

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Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $g1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_pre\_topc : \iota \Rightarrow \iota$  be given. Let  $k2\_borsuk\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_pre\_topc : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & ((v2\_pre\_topc X1) \wedge (l1\_pre\_topc X1)) \Rightarrow (g1\_pre\_topc (u1\_struct\_0 \\ & (k2\_borsuk\_1 X0 X1)) (u1\_pre\_topc (k2\_borsuk\_1 X0 X1)) = k2\_borsuk\_1 \\ & (g1\_pre\_topc (u1\_struct\_0 X0) (u1\_pre\_topc X0)) (g1\_pre\_topc \\ & (u1\_struct\_0 X1) (u1\_pre\_topc X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \wedge \\ & ((v2\_pre\_topc X1) \wedge (l1\_pre\_topc X1))) \Rightarrow ((v1\_pre\_topc (k2\_borsuk\_1 \\ & X0 X1)) \wedge ((v2\_pre\_topc (k2\_borsuk\_1 X0 X1)) \wedge (l1\_pre\_topc (k2\_borsuk\_1 \\ & X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. (l1\_pre\_topc X0) \Rightarrow ((v1\_pre\_topc X0) \Rightarrow (X0 = g1\_pre\_topc (u1\_struct\_0 X0) (u1\_pre\_topc X0))) \quad (3)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & ((v2\_pre\_topc X1) \wedge (l1\_pre\_topc X1)) \Rightarrow (\forall X2. ((v2\_pre\_topc \\ & X2) \wedge (l1\_pre\_topc X2)) \Rightarrow (\forall X3. ((v2\_pre\_topc X3) \wedge (l1\_pre\_topc \\ & X3)) \Rightarrow (((g1\_pre\_topc (u1\_struct\_0 X0) (u1\_pre\_topc X0)) = g1\_pre\_topc \\ & (u1\_struct\_0 X2) (u1\_pre\_topc X2)) \wedge (g1\_pre\_topc (u1\_struct\_0 \\ & X1) (u1\_pre\_topc X1)) = g1\_pre\_topc (u1\_struct\_0 X3) (u1\_pre\_topc \\ & X3)))) \Rightarrow (k2\_borsuk\_1 X0 X1 = k2\_borsuk\_1 X2 X3)))) \end{aligned}$$