

# t52\_topgen\_1 (TMYUqEnF- FoK4raXYh4NKYT8CaS5KQhggfge)

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Let  $v1\_tops\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_borsuk\_5 : \iota$  be given. Let  $k3\_topmetr : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr))) \Rightarrow \\ & ((X0 = k1\_borsuk\_5) \Rightarrow (k2\_pre\_topc k3\_topmetr X0 = u1\_struct\_0 k3\_topmetr)) \end{aligned} \quad (1)$$

Assume the following.

$$m1\_subset\_1 k1\_borsuk\_5 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr)) \quad (2)$$

Assume the following.

$$(v2\_pre\_topc k3\_topmetr) \wedge (l1\_pre\_topc k3\_topmetr) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1\_pre\_topc X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ & (u1\_struct\_0 X0))) \Rightarrow ((v1\_tops\_1 X1 X0) \Leftrightarrow (k2\_pre\_topc X0 X1 = u1\_struct\_0 \\ & X0))) \end{aligned} \quad (4)$$

**Theorem 1**

$$(v1\_tops\_1 k1\_borsuk\_5 k3\_topmetr) \wedge (m1\_subset\_1 k1\_borsuk\_5 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr)))$$