

# t62\_topgen\_4 (TMGdPmxqQVKEvc- tAXi29FRhqUDB7mvzjASN)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_topgen\_4 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v4\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 \\ X0))) \Rightarrow (((\neg v1\_xboole\_0 X1) \wedge ((v1\_prob\_1 X1 X0) \wedge ((v4\_prob\_1 X1 \\ X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 X0)))))) \Leftrightarrow ((v1\_prob\_1 \\ X1 X0) \wedge (v3\_topgen\_4 X1 X0))) \end{aligned} \tag{1}$$

## Theorem 1

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ X0))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 \\ (u1\_struct\_0 X0)))) \Rightarrow (((v1\_prob\_1 X1 (u1\_struct\_0 X0)) \wedge (v3\_topgen\_4 \\ X1 (u1\_struct\_0 X0))) \Rightarrow ((\neg v1\_xboole\_0 X1) \wedge ((v1\_prob\_1 X1 (u1\_struct\_0 \\ X0)) \wedge ((v4\_prob\_1 X1 (u1\_struct\_0 X0)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ (k1\_zfmisc\_1 (u1\_struct\_0 X0)))))))))) \end{aligned}$$