

t57\_topgen\_4 (TM-  
crQtVS2WkQa5Vrfcz5QPgGFzhcxkXnTwX)

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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  $v5\_waybel23 : \iota \Rightarrow o$  be given. Let  $v1\_tops\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_cantor\_1 : \iota \Rightarrow \iota \Rightarrow o$  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  $v4\_card\_3 : \iota \Rightarrow o$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_waybel23 : \iota \Rightarrow \iota$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(l1\_pre\_topc X0) \Rightarrow (\exists X1.((v1\_cantor\_1 X1 X0) \wedge \\ ((v1\_tops\_2 X1 X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 \\ (u1\_struct\_0 X0)))))) \wedge (k1\_card\_1 X1 = k2\_waybel23 X0)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(l1\_pre\_topc X0) \Rightarrow ((v5\_waybel23 X0) \Leftrightarrow (r1\_ordinal1 \\ (k2\_waybel23 X0) k4\_ordinal1)) \quad (2)$$

Assume the following.

$$\forall X0.(v4\_card\_3 X0) \Leftrightarrow (r1\_ordinal1 (k1\_card\_1 X0) k4\_ordinal1) \quad (3)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_pre\_topc X0) \wedge (l1\_pre\_topc \\ X0))) \Rightarrow (\neg (v5\_waybel23 X0) \wedge (\forall X1.((v1\_tops\_2 X1 X0) \wedge (v1\_cantor\_1 \\ X1 X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 (u1\_struct\_0 \\ X0)))))) \Rightarrow (\neg v4\_card\_3 X1))) \end{aligned}$$