

t19\_topalg\_6  
(TMWq4TVz444x5zTT12NdMcmrUe6955J6WfC)

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Let  $l1\_pre\_topc : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v4\_topalg\_6 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_topalg\_2 : \iota$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_topmetr : \iota$  be given. Assume the following.

$$\forall X0. m1\_subset\_1 k1\_xboole\_0 (k1\_zfmisc\_1 X0) \quad (1)$$

Assume the following.

$$\forall X0. (v1\_funct\_1 k1\_xboole\_0) \wedge ((v1\_funct\_2 k1\_xboole\_0 X0 k1\_xboole\_0) \wedge (m1\_subset\_1 k1\_xboole\_0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 k1\_xboole\_0)))) \quad (2)$$

Assume the following.

$$k2\_topalg\_2 = k3\_topmetr \quad (3)$$

Assume the following.

$$\forall X0. (l1\_pre\_topc X0) \Rightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_struct\_0 k2\_topalg\_2) (u1\_struct\_0 X0)))))) \Rightarrow ((X1 = k1\_xboole\_0) \Rightarrow (v4\_topalg\_6 X1 X0))) \quad (4)$$

**Theorem 1**

$$\forall X0. (l1\_pre\_topc X0) \Rightarrow ((v1\_funct\_1 k1\_xboole\_0) \wedge ((v4\_topalg\_6 k1\_xboole\_0 X0) \wedge (m1\_subset\_1 k1\_xboole\_0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_struct\_0 k2\_topalg\_2) (u1\_struct\_0 X0)))))))$$