

## t52\_borsuk\_5

(TMaik9VFpfQxnTrNuu4nWXq5XVVpGVg1ds2)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k6\_measure6 : \iota \Rightarrow \iota$  be given. Let  $k2\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_0 : \iota$  be given. Let  $k4\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k3\_topmetr : \iota$  be given. Let  $k2\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr))) \Rightarrow \\ (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((X0 = k2\_rcomp\_1 k2\_xxreal\_0 X1) \Rightarrow \\ (k2\_pre\_topc k3\_topmetr X0 = k4\_rcomp\_1 k2\_xxreal\_0 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (\forall X1. \\ (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr))) \Rightarrow ((X0 = \\ X1) \Rightarrow (k6\_measure6 X0 = k2\_pre\_topc k3\_topmetr X1))) \end{aligned} \quad (2)$$

Assume the following.

$$u1\_struct\_0 k3\_topmetr = k1\_numbers \quad (3)$$

Assume the following.

$$v1\_xxreal\_0 k2\_xxreal\_0 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow ( \\ m1\_subset\_1 (k2\_rcomp\_1 X0 X1) (k1\_zfmisc\_1 k1\_numbers)) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (6)$$

### Theorem 1

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k6\_measure6 (k2\_rcomp\_1 k2\_xxreal\_0 \\ X0) = k4\_rcomp\_1 k2\_xxreal\_0 X0)$$