

# l110\_toprealb

(TMYVoni3wCc1qvqY344vTdbngArxLw9VU5f)

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Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_topalg\_2 : \iota$  be given. Let  $k5\_toprealb : \iota \Rightarrow \iota$  be given. Let  $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k32\_sin\_cos : \iota$  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  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k31\_sin\_cos : \iota$  be given. Let  $k3\_topmetr : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v2\_pre\_topc : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (u1\_struct\_0\ (k1\_pre\_topc\ X0\ X1) = X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (2)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (3)$$

Assume the following.

$$k32\_sin\_cos = k31\_sin\_cos \quad (4)$$

Assume the following.

$$k2\_topalg\_2 = k3\_topmetr \quad (5)$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0) \wedge ((v1\_xcmplx\_0\ X0) \wedge ((v1\_xxreal\_0\ X0) \wedge (v1\_xreal\_0\ X0))) \quad (6)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers)) \Rightarrow (m1\_subset\_1\ (k5\_toprealb\ X0)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ k2\_topalg\_2))) \quad (7)$$

Assume the following.

$$(v2\_pre\_topc\ k3\_topmetr)\wedge(l1\_pre\_topc\ k3\_topmetr) \quad (8)$$

Assume the following.

$$v1\_xreal\_0\ k31\_sin\_cos \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0)\wedge(v1\_xreal\_0\ X1))\Rightarrow(m1\_subset\_1\ (k1\_rcomp\_1\ X0\ X1)\ (k1\_zfmisc\_1\ k1\_numbers)) \quad (10)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))\Rightarrow(k5\_toprealb\ X0 = X0) \quad (11)$$

**Theorem 1**

$$u1\_struct\_0\ (k1\_pre\_topc\ k2\_topalg\_2\ (k5\_toprealb\ (k1\_rcomp\_1\ k6\_numbers\ k32\_sin\_cos))) = k1\_rcomp\_1\ k6\_numbers\ k32\_sin\_cos$$