

# l104\_toprealb (TMWvhnieszbo- QVMPBD6Pxbpnr1nzQcDQoHa)

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Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k6\_toprealb : \iota \Rightarrow \iota$  be given. Let  $k4\_sin\_cos6 : \iota$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. 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  $k1\_real\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k32\_sin\_cos : \iota$  be given. Let  $v5\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  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  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_fcont\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$k1\_relset\_1 \ k1\_numbers \ k4\_sin\_cos6 = k1\_rcomp\_1 \ (k1\_real\_1 \ np\_1) \ np\_1 \quad (1)$$

Assume the following.

$$k2\_relset\_1 \ k1\_numbers \ k4\_sin\_cos6 = k1\_rcomp\_1 \ k6\_numbers \ k32\_sin\_cos \quad (2)$$

Assume the following.

$$(v1\_funct\_1 \ k4\_sin\_cos6) \wedge (v1\_fcont\_1 \ k4\_sin\_cos6) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (v1\_funct\_1 \ X0) \wedge ((v1\_fcont\_1 \ X0) \wedge (m1\_subset\_1 \ X0 \\ & (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ k1\_numbers \ k1\_numbers)))))) \Rightarrow ((v1\_funct\_1 \\ & (k6\_toprealb \ X0)) \wedge ((v1\_funct\_2 \ (k6\_toprealb \ X0) \ (u1\_struct\_0 \\ & (k1\_pre\_topc \ k2\_topalg\_2 \ (k5\_toprealb \ (k1\_relset\_1 \ k1\_numbers \\ & X0)))) \ (u1\_struct\_0 \ (k1\_pre\_topc \ k2\_topalg\_2 \ (k5\_toprealb \ (k2\_relset\_1 \\ & k1\_numbers \ X0)))))) \wedge (v5\_pre\_topc \ (k6\_toprealb \ X0) \ (k1\_pre\_topc \\ & k2\_topalg\_2 \ (k5\_toprealb \ (k1\_relset\_1 \ k1\_numbers \ X0)))) \ (k1\_pre\_topc \\ & k2\_topalg\_2 \ (k5\_toprealb \ (k2\_relset\_1 \ k1\_numbers \ X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1\_funct\_1 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k1\_numbers k1\_numbers)))) \Rightarrow ((v1\_funct\_1 (k6\_toprealb X0)) \wedge ( \\ (v1\_funct\_2 (k6\_toprealb X0) (u1\_struct\_0 (k1\_pre\_topc k2\_topalg\_2 \\ (k5\_toprealb (k1\_relset\_1 k1\_numbers X0)))) (u1\_struct\_0 (k1\_pre\_topc \\ k2\_topalg\_2 (k5\_toprealb (k2\_relset\_1 k1\_numbers X0)))))) \wedge (m1\_subset\_1 \\ (k6\_toprealb X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_struct\_0 (k1\_pre\_topc \\ k2\_topalg\_2 (k5\_toprealb (k1\_relset\_1 k1\_numbers X0)))) (u1\_struct\_0 \\ (k1\_pre\_topc k2\_topalg\_2 (k5\_toprealb (k2\_relset\_1 k1\_numbers \\ X0)))))))))) \end{aligned} \quad (5)$$

Assume the following.

$$(v1\_funct\_1 k4\_sin\_cos6) \wedge (m1\_subset\_1 k4\_sin\_cos6 (k1\_zfmisc\_1 \\ (k2\_zfmisc\_1 k1\_numbers k1\_numbers))) \quad (6)$$

**Theorem 1**

$$\begin{aligned} (v1\_funct\_1 (k6\_toprealb k4\_sin\_cos6)) \wedge ((v1\_funct\_2 (k6\_toprealb \\ k4\_sin\_cos6) (u1\_struct\_0 (k1\_pre\_topc k2\_topalg\_2 (k5\_toprealb \\ (k1\_rcomp\_1 (k1\_real\_1 np\_1) np\_1)))) (u1\_struct\_0 (k1\_pre\_topc \\ k2\_topalg\_2 (k5\_toprealb (k1\_rcomp\_1 k6\_numbers k32\_sin\_cos)))))) \wedge \\ ((v5\_pre\_topc (k6\_toprealb k4\_sin\_cos6) (k1\_pre\_topc k2\_topalg\_2 \\ (k5\_toprealb (k1\_rcomp\_1 (k1\_real\_1 np\_1) np\_1))) (k1\_pre\_topc \\ k2\_topalg\_2 (k5\_toprealb (k1\_rcomp\_1 k6\_numbers k32\_sin\_cos)))))) \wedge \\ (m1\_subset\_1 (k6\_toprealb k4\_sin\_cos6) (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ (u1\_struct\_0 (k1\_pre\_topc k2\_topalg\_2 (k5\_toprealb (k1\_rcomp\_1 \\ (k1\_real\_1 np\_1) np\_1)))) (u1\_struct\_0 (k1\_pre\_topc k2\_topalg\_2 \\ (k5\_toprealb (k1\_rcomp\_1 k6\_numbers k32\_sin\_cos)))))))))) \end{aligned}$$