

t4\_mboolean (TM-  
RNtSfnpP5Kp9ux7Q2mPWov4mEh4g2KUvK)

October 27, 2020

Let  $r6\_pboole : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_mboolean : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. r6\_pboole X0 (k1\_mboolean X0 (k7\_funcop\_1 X0 X1)) (k7\_funcop\_1 X0 (k1\_zfmisc\_1 X1)) \quad (1)$$

Assume the following.

$$\forall X0. k1\_zfmisc\_1 (k1\_tarski X0) = k2\_tarski k1\_xboole\_0 (k1\_tarski X0) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. r6\_pboole X0 (k1\_mboolean X0 (k7\_funcop\_1 X0 (k1\_tarski X1))) (k7\_funcop\_1 X0 (k2\_tarski k1\_xboole\_0 (k1\_tarski X1)))$$