t23_mboolean (TMPTE7PMbENapfhbBCu6aveGrhRskj1qoRu)

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Let $r6\_pboole : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_mboolean : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k3\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.k2\_tarski\ X0\ X0 = k1\_tarski\ X0 \tag{1}$$

Assume the following.

$$\forall X0.k3\_tarski\ (k1\_tarski\ X0) = X0 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.r6\_pboole\ X0\ (k2\_mboolean\ X0\ (k7\_funcop\_1\ X0\ X1))\ (k7\_funcop\_1\ X0\ (k3\_tarski\ X1)) \tag{3}$$

Theorem 1

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