

t24_mboolean (TM-
LqM7mXBzxYCR1y5R3EZ3RnBeTvvh15sqJ)

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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 $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k3_tarski (k2_tarski (k1_tarski X0) (k1_tarski X1)) = k2_tarski X0 X1 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. r6_pboole X0 (k2_mboolean X0 (k7_funcop_1 X0 X1)) (k7_funcop_1 X0 (k3_tarski X1)) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. r6_pboole X0 (k2_mboolean X0 (k7_funcop_1 X0 (k2_tarski (k1_tarski X1) (k1_tarski X2)))) (k7_funcop_1 X0 (k2_tarski X1 X2))$$