

t140_xboolean (TM-
diAA26Ww8ATL2EgJ6exPq6NLUcE9McmqH)

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Let $v1_xboolean : \iota \Rightarrow o$ be given. Let $k4_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboolean : \iota$ be given. Let $k2_xboolean : \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (k4_xboolean X0 X0 = X0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboolean X0) \Leftrightarrow ((X0 = k1_xboolean) \vee (X0 = k2_xboolean)) \quad (2)$$

Assume the following.

$$k1_xboolean = k6_numbers \quad (3)$$

Theorem 1

$$\forall X0.(v1_xboolean X0) \Rightarrow (\forall X1.(v1_xboolean X1) \Rightarrow (\neg (k4_xboolean X0 X1 = k1_xboolean) \wedge ((X0 \neq k1_xboolean) \wedge (X1 \neq k1_xboolean))))$$