

t91_xboolean (TMQJSSHgt-
PoA2mREvzXFoH8dUBQRQvFtMer)

October 27, 2020

Let $v1_xboolean : \iota \Rightarrow o$ be given. Let $k9_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboolean : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. (v1_xboolean X0) \Rightarrow (\forall X1. (v1_xboolean X1) \Rightarrow (k5_xboolean X0 (k10_xboolean X0 X1) = k5_xboolean X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xboolean X0) \wedge (v1_xboolean X1)) \Rightarrow (v1_xboolean (k10_xboolean X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0. (v1_xboolean X0) \Rightarrow (\forall X1. (v1_xboolean X1) \Rightarrow (k9_xboolean X0 X1 = k3_xboolean (k5_xboolean X0 X1)))) \quad (3)$$

Theorem 1

$$\forall X0. (v1_xboolean X0) \Rightarrow (\forall X1. (v1_xboolean X1) \Rightarrow (k9_xboolean X0 (k10_xboolean X0 X1) = k9_xboolean X0 X1)))$$