

t56_bvfunc_1

(TMZW7NY1k342YfWsbWPKU5rqdQ3vpDL4H3h)

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Let $v1_xboolean : \iota \Rightarrow o$ be given. Let $k7_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_margrel1 : \iota$ be given. Let $k10_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboolean : \iota \Rightarrow \iota$ be given. Let $k2_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (k10_xboolean k8_margrel1 X0 = k3_xboolean X0) \quad (1)$$

Assume the following.

$$k8_margrel1 = k2_xboolean \quad (2)$$

Assume the following.

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

Assume the following.

$$v1_xboolean k2_xboolean \quad (4)$$

Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (\forall X1.(v1_xboolean X1) \Rightarrow (k7_xboolean X0 X1 = k3_xboolean (k10_xboolean X0 X1))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xboolean X0) \wedge (v1_xboolean X1)) \Rightarrow (k7_xboolean X0 X1 = k7_xboolean X1 X0) \quad (6)$$

Theorem 1 $\forall X0.(v1_xboolean X0) \Rightarrow (k7_xboolean k8_margrel1 X0 = X0)$.