t43_bvfunc_1 (TMLcehuJLiwaKmLn3QhuEeviQc2844kdUrr)

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Let $v1\_xboolean : \iota \Rightarrow o$ be given. Let $k8\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_margrel1 : \iota$ be given. Let $k3\_xboolean : \iota \Rightarrow \iota$ be given. Let $k4\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k4\_xboolean\ k8\_margrel1\ X0 = X0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k8\_xboolean\ X0\ (k3\_xboolean\ X0) = k2\_xboolean) \tag{2}$$

Assume the following.

$$k8\_margrel1 = k2\_xboolean \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xboolean\ X0) \wedge (v1\_xboolean\ X1)) \Rightarrow (v1\_xboolean\ (k8\_xboolean\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (v1\_xboolean\ (k3\_xboolean\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (\forall X1.(v1\_xboolean\ X1) \Rightarrow (k8\_xboolean\ X0\ X1 = k3\_xboolean\ (k4\_xboolean\ X0\ X1))) \tag{6}$$

Theorem 1

$$\forall X0.(v1\_xboolean\ X0) \Rightarrow (k8\_xboolean\ k8\_margrel1\ X0 = k3\_xboolean\ X0)$$