

t70_bvfunc_1

(TMTxK89McpwYd41tbwPMEDCszZngaWJDaEg)

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Let $v1_xboolean : \iota \Rightarrow o$ be given. Let $k6_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_margrel1 : \iota$ be given. Let $k2_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (\forall X1.(v1_xboolean X1) \Rightarrow ((X0 = k8_margrel1) \wedge (k6_xboolean X0 X1 = k8_margrel1)) \Rightarrow (X1 = k8_margrel1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (\forall X1.(v1_xboolean X1) \Rightarrow ((k6_xboolean X0 (k6_xboolean X0 X1) = k2_xboolean X0 X1 = k2_xboolean))) \Rightarrow (k6_xboolean X0 X1 = k2_xboolean)) \quad (2)$$

Assume the following.

$$k8_margrel1 = k2_xboolean \quad (3)$$

Theorem 1

$$\forall X0.(v1_xboolean X0) \Rightarrow (\forall X1.(v1_xboolean X1) \Rightarrow (\forall X2.(v1_xboolean X2) \Rightarrow (((k6_xboolean X0 (k6_xboolean X1 X2) = k8_margrel1) \wedge ((X1 = k8_margrel1) \wedge (X0 = k8_margrel1))) \Rightarrow (X2 = k8_margrel1))))))$$