

t3_binarith (TMU-
tyjBE5QuqM5fTDMCJtaCUHs6riWVYK3W)

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Let $v1_xboolean : \iota \Rightarrow o$ be given. Let $k5_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_margrel1 : \iota$ be given. Let $k4_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboolean : \iota \Rightarrow \iota$ be given. Let $k1_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (\forall X1.(v1_xboolean X1) \Rightarrow (k5_xboolean X0 (k4_xboolean X0 X1) = X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (k4_xboolean X0 (k3_xboolean X0) = k1_xboolean) \quad (2)$$

Assume the following.

$$k7_margrel1 = k1_xboolean \quad (3)$$

Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (v1_xboolean (k3_xboolean X0)) \quad (4)$$

Theorem 1 $\forall X0.(v1_xboolean X0) \Rightarrow (k5_xboolean X0 k7_margrel1 = X0)$.