t10_binarith
(TMS6LzkWKDNGPuVGaCBh7EVNeWYwXgPdXxf)

October 27, 2020

Let $v1\_xboolean : \iota{\Rightarrow}o$ be given. Let $k5\_xboolean : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k8\_margrel1 : \iota$ be given. Let $k6\_xboolean : \iota{\Rightarrow}\iota{\Rightarrow}\iota$ be given. Let $k2\_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboolean\ X0){\Rightarrow}(\forall X1.(v1\_xboolean\ X1){\Rightarrow}(k5\_xboolean \\ X0\ (k6\_xboolean\ X0\ X1) = k2\_xboolean)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboolean\ X0){\Rightarrow}(k6\_xboolean\ X0\ X0 = k2\_xboolean) \tag{2}$$

Assume the following.

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

Theorem 1

$$\forall X0.(v1\_xboolean\ X0){\Rightarrow}(k5\_xboolean\ X0\ k8\_margrel1 = k8\_margrel1)$$