

t116_xboole_1
(TMbNaj7UGxXEgKfp626qdoXLjSbo9PYbw7T)

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Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k3_xboole_0 (k3_xboole_0 X0 X1) X2 = k3_xboole_0 X0 (k3_xboole_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X0 = X0 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X1 = k3_xboole_0 X1 X0 \quad (3)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. k3_xboole_0 X0 (k3_xboole_0 X1 X2) = k3_xboole_0 (k3_xboole_0 X0 X1) (k3_xboole_0 X0 X2)$$