

t30_xboole_1 (TMJXXTAkFhuArX- owWJtFx1pFjEt2h3hvVDy)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k2_xboole_0 X0 (k3_xboole_0 X1 X2) = k3_xboole_0 (k2_xboole_0 X0 X1) (k2_xboole_0 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (k2_xboole_0 X0 X1 = X1) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. (r1_tarski X0 X1) \Rightarrow (k2_xboole_0 X0 (k3_xboole_0 X2 X1) = k3_xboole_0 (k2_xboole_0 X0 X2) X1)$$