

t35_xtuple_0
(TMTNf6VCAJTNvUfe3HasdUwG16EL4C5Uej9)

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Let $k12_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k10_xtuple_0 (k2_xboole_0 X0 X1) = k2_xboole_0 (k10_xtuple_0 X0) (k10_xtuple_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k9_xtuple_0 (k2_xboole_0 X0 X1) = k2_xboole_0 (k9_xtuple_0 X0) (k9_xtuple_0 X1) \quad (2)$$

Assume the following.

$$\forall X0. k12_xtuple_0 X0 = k10_xtuple_0 (k9_xtuple_0 X0) \quad (3)$$

Theorem 1

$$\forall X0. \forall X1. k12_xtuple_0 (k2_xboole_0 X0 X1) = k2_xboole_0 (k12_xtuple_0 X0) (k12_xtuple_0 X1)$$