

t56_xboole_1
(TMKuQshrjtDn9cUkFhLMt3E7aSYifHoS3bL)

October 27, 2020

Let $r2_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r2_xboole_0 X1 X2)) \Rightarrow (r2_xboole_0 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r2_xboole_0 X0 X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (X0 \neq X1)) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. ((r2_xboole_0 X0 X1) \wedge (r2_xboole_0 X1 X2)) \Rightarrow (r2_xboole_0 X0 X2)$$