

l2_heyting2
(TMHmQ75nAUxmAKDa6ez9u2JPpMnCf6NVVTP)

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

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (1)$$

Assume the following.

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

Theorem 1

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