l2_jordan (TM-cRSY9yPMQdUSKDEyExUorPZPFKzGrGppE)

October 27, 2020

Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1\_tarski\ X0\ X1) \wedge (r1\_tarski\ X2\ X1)) \Rightarrow (r1\_tarski\ (k2\_xboole\_0\ X0\ X2)\ X1) \tag{1}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.((r1\_tarski\ X0\ X4) \wedge ((r1\_tarski\ X1\ X4) \wedge ((r1\_tarski\ X2\ X4) \wedge (r1\_tarski\ X3\ X4)))) \Rightarrow (r1\_tarski\ (k2\_xboole\_0\ (k2\_xboole\_0\ (k2\_xboole\_0\ X0\ X1)\ X2)\ X3)\ X4)$$