

t108_zfmisc_1

(TMdcbu1qQoXc1PAXd2Eyq98pWC2hMt6Aesr)

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Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \neq X1) \Rightarrow (r1_xboole_0 (k1_tarski X0) (k1_tarski X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((r1_xboole_0 X0 X1) \vee (r1_xboole_0 X2 X3)) \Rightarrow (r1_xboole_0 (k2_zfmisc_1 X0 X2) (k2_zfmisc_1 X1 X3)) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. (X0 \neq X1) \Rightarrow ((r1_xboole_0 (k2_zfmisc_1 (k1_tarski X0) X2) (k2_zfmisc_1 (k1_tarski X1) X3)) \wedge (r1_xboole_0 (k2_zfmisc_1 X2 (k1_tarski X0)) (k2_zfmisc_1 X3 (k1_tarski X1))))$$