

t6_interva1
(TM Yeo1W BabuuQ Scm5qU qg58JjPF doz7ioR7)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_interval : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow ((k1_interval X0 X1 X2 \neq k1_xboole_0) \Rightarrow \\ & ((X1 \in k1_interval X0 X1 X2) \wedge (X2 \in k1_interval X0 X1 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (\forall X3. (X3 \in k1_interval \\ & X0 X1 X2) \Leftrightarrow ((r1_tarski X1 X3) \wedge (r1_tarski X3 X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\ & (k1_zfmisc_1 X0)) \Rightarrow (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 X0)) \Rightarrow \\ & ((k1_interval X0 X1 X2 = k1_interval X0 X3 X4) \Rightarrow ((k1_interval X0 X1 \\ & X2 = k1_xboole_0) \vee ((X1 = X3) \wedge (X2 = X4))))))) \end{aligned}$$