

t44_cfcont_1 (TMTeGWsdzNFrmMYyf-
woQMvwb2cbhLXYZbev)

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Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_numbers : \iota$ be given. Let $r2_cfcont_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k46_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & \quad (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow (\forall X2. ((v1_funct_1 \\ & \quad X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow \\ & \quad (((r2_cfcont_1 X1 X0) \wedge (r2_cfcont_1 X2 X0)) \Rightarrow ((r2_cfcont_1 (k2_valued_1 \\ & \quad k2_numbers k2_numbers k2_numbers X1 X2) X0) \wedge ((r2_cfcont_1 (k46_valued_1 \\ & \quad k2_numbers k2_numbers k2_numbers X1 X2) X0) \wedge (r2_cfcont_1 (k19_valued_1 \\ & \quad k2_numbers k2_numbers k2_numbers X1 X2) X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & \quad X2 (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow (((r2_cfcont_1 \\ & \quad X2 X0) \wedge (r1_tarski X1 X0)) \Rightarrow (r2_cfcont_1 X2 X1)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski (k3_xboole_0 X0 X1) X0 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X1 = k3_xboole_0 X1 X0 \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow (\forall X3. \\ & ((v1_funct_1 X3) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers \\ & k2_numbers)))) \Rightarrow (((r2_cfcont_1 X2 X0) \wedge (r2_cfcont_1 X3 X1)) \Rightarrow (\\ & (r2_cfcont_1 (k2_valued_1 k2_numbers k2_numbers k2_numbers X2 \\ & X3) (k3_xboole_0 X0 X1)) \wedge ((r2_cfcont_1 (k46_valued_1 k2_numbers \\ & k2_numbers k2_numbers X2 X3) (k3_xboole_0 X0 X1)) \wedge (r2_cfcont_1 \\ & (k19_valued_1 k2_numbers k2_numbers k2_numbers X2 X3) (k3_xboole_0 \\ & X0 X1)))))) \end{aligned}$$