

t47_rfunct_2 (TMddNepQgxN- hTm72umbahiQfBZWKh3KJzTR)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v5_valued_0 : \iota \Rightarrow o$ be given. Let $k2_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_partfun2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1_funct_1 X2) \wedge \\ & (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow (k2_partfun1 \\ & X0 X1 X2 X3 = k5_relat_1 X2 X3) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow (k1_partfun2 X0 X1 = k4_relat_1 X1) \tag{2}$$

Assume the following.

$$\forall X0. (v2_membered X0) \Rightarrow ((v1_funct_1 (k4_relat_1 X0)) \wedge (v1_funct_2 (k4_relat_1 X0) X0 X0) \wedge (v5_valued_0 (k4_relat_1 X0))) \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X0) \wedge ((v5_valued_0 X0) \wedge (m1_subset_1 \\ & X0 (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)))) \Rightarrow ((v1_funct_1 \\ & (k5_relat_1 X0 X1)) \wedge (v5_valued_0 (k5_relat_1 X0 X1))) \end{aligned} \tag{4}$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & X0))) \Rightarrow ((v1_funct_1 (k1_partfun2 X0 X1)) \wedge (m1_subset_1 (k1_partfun2 \\ & X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \end{aligned} \tag{6}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))\Rightarrow(v3_membered X0) \quad (7)$$

Assume the following.

$$\forall X0.(v3_membered X0)\Rightarrow(v2_membered X0) \quad (8)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers))\Rightarrow(v5_valued_0 (k2_partfun1 k1_numbers k1_numbers (k1_partfun2 k1_numbers X0) X0))$$