

t36_cfdiff_1

(TMGjihfaGQ4FFyf62MQGxPLDFpd3BjrX81y)

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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 $v6_cfdiff_1 : \iota \Rightarrow o$ be given. Let $r2_cfdiff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_cfdiff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow ((r2_cfdiff_1 X1 X0) \Rightarrow (m1_subset_1 X0 (k1_zfmisc_1 k2_numbers))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k2_numbers)) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow ((r2_cfdiff_1 X1 X0) \Rightarrow (v6_cfdiff_1 X0))) \quad (3)$$

Assume the following.

$$\forall X0. ((v1_funct_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow (\forall X1. ((v6_cfdiff_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 k2_numbers)))) \Rightarrow ((r2_cfdiff_1 X0 X1) \Leftrightarrow ((r1_tarski X1 (k1_relset_1 k2_numbers X0)) \wedge (\forall X2. (m1_subset_1 X2 k2_numbers) \Rightarrow ((X2 \in X1) \Rightarrow (r1_cfdiff_1 X0 X2))))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k2_numbers k2_numbers)))) \Rightarrow (\forall X2. ((v6_cfdiff_1 \\ & X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 k2_numbers))) \Rightarrow ((r2_cfdiff_1 \\ & X1 X0) \wedge (r1_tarSKI X2 X0)) \Rightarrow (r2_cfdiff_1 X1 X2)) \end{aligned}$$