

t10_cfdiff_1

(TMaZy1Wpk9tTDPnnF2Fiw2TXsetxNH5DnTY)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_numbers : \iota$ be given. Let $v6_cfdiff_1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17_complex1 : \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_cfdiff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k2_numbers)) \Rightarrow ((v6_cfdiff_1 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\neg(X1 \in X0) \wedge (\forall X2.(m1_cfdiff_1 X2 X1) \Rightarrow (\neg r1_tarski X2 X0)))))) \quad (1)$$

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.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(m1_cfdiff_1 X1 X0) \Rightarrow (m1_subset_1 X1 (k1_zfmisc_1 k2_numbers))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 k2_numbers)) \Rightarrow ((m1_cfdiff_1 X1 X0) \Leftrightarrow (\exists X2.(m1_subset_1 X2 k1_numbers) \wedge ((\neg r1_xxreal_0 X2 k6_numbers) \wedge (r1_tarski (ReplSep (toset (\lambda X3 : \iota.v1_xcmplx_0 X3)) (\lambda X3 : \iota.\neg r1_xxreal_0 X2 (k17_complex1 (k6_xcmplx_0 X3 X0))) (\lambda X3 : \iota.X3)) X1)))))) \quad (4)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k2_numbers)) \Rightarrow ((v6_cfdiff_1 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\neg(X1 \in X0) \wedge (\forall X2.(m1_subset_1 X2 k1_numbers) \Rightarrow (\neg r1_tarski (ReplSep (toset (\lambda X3 : \iota.v1_xcmplx_0 X3)) (\lambda X3 : \iota.\neg r1_xxreal_0 X2 (k17_complex1 (k6_xcmplx_0 X3 X0))) (\lambda X3 : \iota.X3)) X1)))))) \quad (4)$$