

t10_hausdorf

(TMJb45tFXNoujyNp4DUXbad7e1SJwR2ZYZE)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k3_weierstr : \iota \Rightarrow \iota$ be given. Let $k5_seq_4 : \iota \Rightarrow \iota$ be given. Let $k1_weierstr : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow (m1_subset_1 (k1_weierstr X0) (k1_zfmisc_1 k1_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow (k3_weierstr X0 = k5_seq_4 (k1_weierstr X0)) \quad (2)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow (k1_weierstr X0 = X0) \quad (3)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr)))) \Rightarrow (\exists X1.((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 k1_numbers))) \wedge ((X0 = X1) \wedge (k3_weierstr X0 = k5_seq_4 X1)))$$