

t38_polyeq_3 (TMX- pDHR9bq76gydTKBA7SKz4CEuMqdWfPVU)

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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 $k5_numbers : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $m1_comptrig : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 k2_numbers) \Rightarrow (\forall X2.(m1_comptrig X2 X1 X0) \Rightarrow \\ & ((X2 = k6_numbers) \Rightarrow (X1 = k6_numbers)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. (v1_xcmplx_0 X0) \Leftrightarrow (X0 \in k2_numbers) \quad (4)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X0 k5_numbers)) \Rightarrow \\ & (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2.(m1_comptrig X2 X1 X0) \Rightarrow \\ & ((X2 = k6_numbers) \Rightarrow (X1 = k6_numbers)))) \end{aligned}$$