

t58_comptrig
(TMNz8s1wdUuQB1T6VhGAfK78W7NjkUFpmhN)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $m1_comptrig : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k1_newton X0 np_1 = X0) \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\neg v1_xboole_0 np_1 \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_xcmplx_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (v7_ordinal1 X1))) \Rightarrow (\forall X2. (m1_comptrig X2 X0 X1) \Rightarrow (v1_xcmplx_0 \\ & X2)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v1_xcmplx_0 X0) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge \\ & (v7_ordinal1 X1)) \Rightarrow (\forall X2. (v1_xcmplx_0 X2) \Rightarrow ((m1_comptrig \\ & X2 X0 X1) \Leftrightarrow (k1_newton X2 X1 = X0)))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k2_numbers) \Rightarrow (v1_xcmplx_0\ X0) \quad (8)$$

Assume the following.

$$\forall X0.(v6_membered\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ X0) \Rightarrow (v7_ordinal1\ X1)) \quad (9)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ k2_numbers) \Rightarrow (\forall X1.(m1_comptrig\ X1\ X0\ np_1) \Rightarrow (X1 = X0))$$