

t64_complex2 (TMMnJmNVLY- ojU5tHXsDX53mABHDgeGXefX7)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k1_comptrig : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k10_complex1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k32_sin_cos : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (((\neg r1_xxreal_0 \\ k32_sin_cos (k1_comptrig X0)) \Rightarrow (k1_comptrig (k4_xcmplx_0 X0) = \\ k7_real_1 (k1_comptrig X0) k32_sin_cos)) \wedge ((r1_xxreal_0 k32_sin_cos \\ (k1_comptrig X0)) \Rightarrow (k1_comptrig (k4_xcmplx_0 X0) = k9_real_1 (\\ k1_comptrig X0) k32_sin_cos)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (k10_complex1 X0 = k4_xcmplx_0 X0) \quad (2)$$

Assume the following.

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

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k2_numbers) \Rightarrow ((k1_comptrig X0 = k1_comptrig X1) \Rightarrow ((X0 = k6_numbers) \vee \\ ((X1 = k6_numbers) \vee (k1_comptrig (k10_complex1 X0) = k1_comptrig \\ (k10_complex1 X1)))))) \end{aligned}$$