

l11_euclid_6 (TM-
bkcrDu5mDgP97ajwKsQSMcCDDtVWYmbt6)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_comptrig : \iota \Rightarrow \iota$ be given. Let $k2_complex2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_complex1 : \iota \Rightarrow \iota$ be given. Let $k21_sin_cos : \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18_sin_cos : \iota \Rightarrow \iota$ be given. Let $k7_complex1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $k32_sin_cos : \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((k2_complex2 X1 X0 = k6_numbers) \Leftrightarrow (X1 = k6_numbers))) \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (m1_subset_1 (k1_real_1 X0) k1_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (m1_subset_1 (k1_comptrig X0) k1_numbers) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 k1_numbers) \Rightarrow \\ & (((X0 \neq k6_numbers) \Rightarrow ((X1 = k1_comptrig X0) \Leftrightarrow ((X0 = k2_xcmplx_0 (\\ & k8_real_1 (k17_complex1 X0) (k21_sin_cos X1)) (k3_xcmplx_0 (k8_real_1 \\ & (k17_complex1 X0) (k18_sin_cos X1)) k7_complex1)) \wedge (r1_xxreal_0 \\ & k6_numbers X1) \wedge (\neg r1_xxreal_0 (k8_real_1 np_2 k32_sin_cos) X1)))) \wedge \\ & ((X0 = k6_numbers) \Rightarrow ((X1 = k1_comptrig X0) \Leftrightarrow (X1 = k6_numbers)))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (v1_xcmplx_0 X0) \quad (5)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 X1 k2_numbers) \Rightarrow ((X1 = k6_numbers) \Rightarrow (k1_comp trig (k2_complex2 X1 (k1_real_1 (k1_comp trig X0))) = k6_numbers)))$$