

l16_euclid_6 (TMVm- RQkurXmjxTsC96TU9ZrvTpHmJi3ZKMx)

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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 $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_comptrig : \iota \Rightarrow \iota$ be given. Let $k3_complex2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $k2_complex2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k2_numbers) \Rightarrow (\neg(X1 \neq k6_numbers) \wedge ((\neg r1_xxreal_0 k6_numbers \\ (k9_real_1 (k1_comptrig X1) (k1_comptrig X0))) \wedge (k1_comptrig \\ (k2_complex2 X1 (k1_real_1 (k1_comptrig X0))) \neq k7_real_1 (k9_real_1 \\ (k8_real_1 np_2 k32_sin_cos) (k1_comptrig X0)) (k1_comptrig \\ X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((\\ (\neg(k1_comptrig X0 \neq k6_numbers) \wedge (X1 = k6_numbers)) \Rightarrow (k3_complex2 \\ X0 X1 = k1_comptrig (k2_complex2 X1 (k1_real_1 (k1_comptrig X0)))))) \wedge \\ (\neg(k1_comptrig X0 \neq k6_numbers) \wedge ((X1 = k6_numbers) \wedge (k3_complex2 \\ X0 X1 \neq k9_real_1 (k8_real_1 np_2 k32_sin_cos) (k1_comptrig X0)))))) \end{aligned} \quad (2)$$

Assume the following.

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

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k2_numbers) \Rightarrow (\neg(X1 \neq k6_numbers) \wedge ((\neg r1_xxreal_0 k6_numbers \\ (k9_real_1 (k1_comptrig X1) (k1_comptrig X0))) \wedge (k3_complex2 \\ X0 X1 \neq k7_real_1 (k9_real_1 (k8_real_1 np_2 k32_sin_cos) (k1_comptrig \\ X0)) (k1_comptrig X1)))))) \end{aligned}$$