

t6_euclid_3 (TMHER-
FEn7xTiDopSX4gudAP8rkGD758JWNd)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_complex1 : \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_complex1 : \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((\\ k3_complex1 (k2_xcmplx_0 X0 X1) = k7_real_1 (k3_complex1 X0) (k3_complex1 \\ X1)) \wedge (k4_complex1 (k2_xcmplx_0 X0 X1) = k7_real_1 (k4_complex1 \\ X0) (k4_complex1 X1)))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k19_euclid \\ (k3_complex1 (k2_xcmplx_0 X0 X1)) (k4_complex1 (k2_xcmplx_0 X0 \\ X1)) = k19_euclid (k7_real_1 (k3_complex1 X0) (k3_complex1 X1)) \\ (k7_real_1 (k4_complex1 X0) (k4_complex1 X1)))) \end{aligned}$$