

t10_euclid_3
(TMWrcdnCJZnxWp23JjLDV35LKz71tt25uTj)

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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 $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k4_complex1 : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow ((k3_complex1 (k4_xcmplx_0 X0) = \\ k1_real_1 (k3_complex1 X0)) \wedge (k4_complex1 (k4_xcmplx_0 X0) = k1_real_1 \\ (k4_complex1 X0))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (k19_euclid (k3_complex1 (k4_xcmplx_0 \\ X0)) (k4_complex1 (k4_xcmplx_0 X0)) = k19_euclid (k1_real_1 (k3_complex1 \\ X0)) (k1_real_1 (k4_complex1 X0))) \end{aligned}$$