

t41_series_5

(TMG9tBco2Mu7vifHuK7eyFFtJphVLM5VzRX)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((k2_xcmplx_0 (k2_xcmplx_0 X0 X1) X2 = np_1) \Rightarrow \\ & (r1_xxreal_0 (k2_xcmplx_0 (k2_xcmplx_0 (k3_xcmplx_0 X0 X1) (k3_xcmplx_0 \\ & X1 X2)) (k3_xcmplx_0 X0 X2)) (k13_complex1 np_1 np_3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (k3_xcmplx_0 X0 X1 = k3_xcmplx_0 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((k2_xcmplx_0 (k2_xcmplx_0 X0 X1) X2 = np_1) \Rightarrow \\ & (r1_xxreal_0 (k2_xcmplx_0 (k2_xcmplx_0 (k3_xcmplx_0 X0 X1) (k3_xcmplx_0 \\ & X1 X2)) (k3_xcmplx_0 X2 X0)) (k13_complex1 np_1 np_3)))))) \end{aligned}$$