

l4_series_4

(TMEhk94KiAWjwVzhjFGMEUaP4fy4T9GYifG)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k3_xcmplx_0 (k6_xcmplx_0 X0 X1) (k2_xcmplx_0 X0 X1) = k6_xcmplx_0 (k3_square_1 X0) (k3_square_1 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k3_square_1 X0 = k1_newton X0 np_2) \quad (2)$$

Assume the following.

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

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (k3_xcmplx_0 (k6_xcmplx_0 X0 X1) (k2_xcmplx_0 X0 X1) = k6_xcmplx_0 (k1_newton X0 np_2) (k1_newton X1 np_2)))$$