

t46_rvsum_2

(TMNZHdsWHDW59TUZthXrpg6Ez8oYDAHuvuN)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k19_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (k1_newton (k1_newton X2 X0) X1 = k1_newton X2 \\ & (k3_xcmplx_0 X0 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (k24_binop_2 X0 X1 = k3_xcmplx_0 X0 X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (v1_xcmplx_0 (k1_newton X0 X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (v7_ordinal1 (k3_xcmplx_0 X0 X1)) \tag{4}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (k1_newton X0 X1 = k19_rvsum_1 (k2_finseq_2 X1 X0))) \tag{5}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (k19_rvsum_1 (k2_finseq_2 (k24_binop_2 X0 X1) \\ & X2) = k19_rvsum_1 (k2_finseq_2 X1 (k19_rvsum_1 (k2_finseq_2 X0 \\ & X2)))))) \end{aligned}$$