t1_wsierp_1 (TMW4kg1kFG1gEqznKkPz3C7VrUW17QKJviM)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow ((k1\_newton\ X0\ np\_\_2 = k3\_xcmplx\_0\ X0\ X0) \wedge (k3\_square\_1\ X0 = k1\_newton\ X0\ np\_\_2)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k3\_xcmplx\_0\ (k4\_xcmplx\_0\ X0)\ (k4\_xcmplx\_0\ X1) = k3\_xcmplx\_0\ X0\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ (k4\_xcmplx\_0\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{4}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((k1\_newton\ X0\ np\_\_2 = k3\_xcmplx\_0\ X0\ X0) \wedge (k1\_newton\ (k4\_xcmplx\_0\ X0)\ np\_\_2 = k1\_newton\ X0\ np\_\_2))$$