

# l7\_polyeq\_3

## (TMJES7ksme37vMjTd9eNtikgXZM6MgkHoUv)

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Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k5\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_square\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. ((v1\_xcmplx\_0 X0) \wedge (v1\_xcmplx\_0 X1)) \Rightarrow (k5\_binop\_2 X0 X1 = k3\_xcmplx\_0 X0 X1) \quad (2)$$

**Theorem 1**  $\forall X0. (v1\_xcmplx\_0 X0) \Rightarrow (k1\_newton X0 np\_2 = k5\_binop\_2 X0 X0).$