l58_wsierp_1 (TMLcP-wmji1tHb1KaNWqhSBddkmpJCCKanip)

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Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k6\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow (X1 = k2\_xcmplx\_0\ (k3\_xcmplx\_0\ (k5\_int\_1\ X1\ X0)\ X0)\ (k6\_int\_1\ X1\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k2\_xcmplx\_0\ X0\ k6\_numbers = X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (v1\_xreal\_0\ (k3\_xcmplx\_0\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0) \wedge (v1\_int\_1\ X1)) \Rightarrow (v1\_int\_1\ (k5\_int\_1\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow ((r1\_int\_1\ X0\ X1) \Leftrightarrow (\exists X2.(v1\_int\_1\ X2) \wedge (X1 = k3\_xcmplx\_0\ X0\ X2)))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0) \wedge (v1\_xcmplx\_0\ X1)) \Rightarrow (k3\_xcmplx\_0\ X0\ X1 = k3\_xcmplx\_0\ X1\ X0) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (v1\_xreal\_0\ X0) \tag{8}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow ((k6\_int\_1\ X1\ X0 = k6\_numbers) \Rightarrow ((X0 = k6\_numbers) \vee (r1\_int\_1\ X0\ X1))))$$