t64_int_1 (TMF2V4eVrye4WpP811pqFwoaapzDDWu93VY)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_int\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((k1\_int\_1\ X0 = X0) \Leftrightarrow (v1\_int\_1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (k4\_xcmplx\_0\ (k7\_xcmplx\_0\ X0\ X1) = k7\_xcmplx\_0\ (k4\_xcmplx\_0\ X0)\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow ((v1\_xcmplx\_0\ (k4\_xcmplx\_0\ X0)) \wedge (v1\_int\_1\ (k4\_xcmplx\_0\ X0))) \tag{3}$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (v1\_xreal\_0\ X0) \tag{5}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((v1\_int\_1\ (k7\_xcmplx\_0\ X0\ X1)) \Rightarrow (k4\_xcmplx\_0\ (k1\_int\_1\ (k7\_xcmplx\_0\ X0\ X1)) = k1\_int\_1\ (k7\_xcmplx\_0\ (k4\_xcmplx\_0\ X0)\ X1))))$$