t45_int_4 (TMTLoTzr9LiHmN14wqNna16edDmi9NJLsnk)

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Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_int\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.(v1\_int\_1\ X2) \Rightarrow (\forall X3.(v1\_int\_1\ X3) \Rightarrow (\neg(X0 \neq k6\_numbers) \wedge ((X1 \neq k6\_numbers) \wedge ((\neg r1\_int\_1\ (k3\_int\_2\ X0\ X1)\ (k6\_xcmplx\_0\ X2\ X3)) \wedge (\exists X4.(v1\_int\_1\ X4) \wedge ((k6\_int\_1\ (k6\_xcmplx\_0\ X4\ X2)\ X0 = k6\_numbers) \wedge (k6\_int\_1\ (k6\_xcmplx\_0\ X4\ X3)\ X1 = k6\_numbers)))))))) \tag{1}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.(v1\_int\_1\ X2) \Rightarrow (\forall X3.(v1\_int\_1\ X3) \Rightarrow (\forall X4.(v1\_int\_1\ X4) \Rightarrow (\forall X5.(v1\_int\_1\ X5) \Rightarrow (\neg(X0 \neq k6\_numbers) \wedge ((X1 \neq k6\_numbers) \wedge ((X2 \neq k6\_numbers) \wedge ((\neg(r1\_int\_1\ (k3\_int\_2\ X0\ X1)\ (k6\_xcmplx\_0\ X3\ X4)) \wedge ((r1\_int\_1\ (k3\_int\_2\ X0\ X2)\ (k6\_xcmplx\_0\ X3\ X5)) \wedge (r1\_int\_1\ (k3\_int\_2\ X1\ X2)\ (k6\_xcmplx\_0\ X4\ X5)))) \wedge (\exists X6.(v1\_int\_1\ X6) \wedge ((k6\_int\_1\ (k6\_xcmplx\_0\ X6\ X3)\ X0 = k6\_numbers) \wedge ((k6\_int\_1\ (k6\_xcmplx\_0\ X6\ X4)\ X1 = k6\_numbers) \wedge (k6\_int\_1\ (k6\_xcmplx\_0\ X6\ X5)\ X2 = k6\_numbers))))))))))))$$