t45_int_1 (TM-LVyskJ1shMCP43Yb1NneVjCtkEApMXQdp)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k4\_int\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k1\_int\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k3\_int\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k1\_int\_1\ (k4\_int\_1\ X0) = k6\_numbers) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((\neg r1\_xxreal\_0\ np\_\_1\ (k4\_int\_1\ X0)) \wedge (r1\_xxreal\_0\ k6\_numbers\ (k4\_int\_1\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((\neg(\neg r1\_xxreal\_0\ X0\ (k1\_int\_1\ X0)) \wedge (v1\_int\_1\ X0)) \wedge (\neg(\neg v1\_int\_1\ X0) \wedge (r1\_xxreal\_0\ X0\ (k1\_int\_1\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((k1\_int\_1\ X0 = X0) \Leftrightarrow (v1\_int\_1\ X0)) \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k4\_int\_1\ X0 = k3\_int\_1\ X0) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X1\ X0) \wedge (r1\_xxreal\_0\ (k6\_xcmplx\_0\ X1\ X0)\ k6\_numbers))) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xreal\_0\ (k3\_int\_1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0)\wedge(v1\_int\_1\ X1))\Rightarrow(v1\_int\_1\ (k6\_xcmplx\_0\ X0\ X1)) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_int\_1\ (k1\_int\_1\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(k3\_int\_1\ X0 = k6\_xcmplx\_0\ X0\ (k1\_int\_1\ X0)) \tag{11}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0)\Rightarrow(v1\_xreal\_0\ X0) \tag{12}$$

Theorem 1 $\forall X0.(v1\_xreal\_0\ X0)\Rightarrow((k4\_int\_1\ X0 = k6\_numbers)\Leftrightarrow(v1\_int\_1\ X0))$.