

t3_radix_2

(TMHrcTr3gNVw5YBQY9YiQMCTnyrjd5JDafK)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k6_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (k6_int_1 (k3_xcmplx_0 X1 X2) X0 = k6_int_1 (k3_xcmplx_0 \\ & (k6_int_1 X1 X0) (k6_int_1 X2 X0)) X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (k6_int_1 \\ & (k6_int_1 X1 X0) X0 = k6_int_1 X1 X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (v1_int_1 \\ & (k6_int_1 X0 X1)) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_int_1 X0) \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v7_ordinal1 X2) \Rightarrow ((\neg r1_xreal_0 X2 k6_numbers) \Rightarrow (k6_int_1 (k3_xcmplx_0 \\ & X0 X1) X2 = k6_int_1 (k3_xcmplx_0 X0 (k6_int_1 X1 X2)) X2)))) \end{aligned}$$