

t28_wsierp_1
(TMG9RAfGF9WH1r1c5Tda1TuAXUWoJDbTfdv)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\exists X2. \\ & (v1_int_1 X2) \wedge (\exists X3.(v1_int_1 X3) \wedge (k3_int_2 X0 X1 = k2_xcmplx_0 \\ & (k3_xcmplx_0 X2 X0) (k3_xcmplx_0 X3 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (\\ & k3_xcmplx_0 X0 X1 = k3_xcmplx_0 X1 X0) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\exists X2. \\ & (v1_int_1 X2) \wedge (\exists X3.(v1_int_1 X3) \wedge (k3_int_2 X0 X1 = k2_xcmplx_0 \\ & (k3_xcmplx_0 X0 X2) (k3_xcmplx_0 X1 X3)))))) \end{aligned}$$