

t10_int_2

(TMT7syAQs2AgrCBsJfP3H2ci8uEHtqYNXR2)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $r1_int_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (((r1_int_1 X0 X1) \wedge (r1_int_1 X1 X2)) \Rightarrow (r1_int_1 \\ & X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow ((r1_int_1 X0 (k4_xcmplx_0 X0)) \wedge (r1_int_1 (k4_xcmplx_0 X0) X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow ((v1_xcmplx_0 (k4_xcmplx_0 X0)) \wedge (v1_int_1 (k4_xcmplx_0 X0))) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (((r1_int_1 \\ & X0 X1) \Rightarrow (r1_int_1 X0 (k4_xcmplx_0 X1))) \wedge (((r1_int_1 X0 (k4_xcmplx_0 \\ & X1)) \Rightarrow (r1_int_1 X0 X1)) \wedge (((r1_int_1 X0 X1) \Rightarrow (r1_int_1 (k4_xcmplx_0 \\ & X0) X1)) \wedge (((r1_int_1 (k4_xcmplx_0 X0) X1) \Rightarrow (r1_int_1 X0 X1)) \wedge \\ & ((r1_int_1 X0 X1) \Rightarrow (r1_int_1 (k4_xcmplx_0 X0) (k4_xcmplx_0 X1))) \wedge \\ & (((r1_int_1 (k4_xcmplx_0 X0) (k4_xcmplx_0 X1)) \Rightarrow (r1_int_1 X0 X1)) \wedge \\ & (((r1_int_1 X0 (k4_xcmplx_0 X1)) \Rightarrow (r1_int_1 (k4_xcmplx_0 X0) X1)) \wedge \\ & ((r1_int_1 (k4_xcmplx_0 X0) X1) \Rightarrow (r1_int_1 X0 (k4_xcmplx_0 X1)))))))))) \end{aligned}$$