

t11_int_4

(TMaghcXwWueKY4TXL2Es9L2kxkLqM53z5rQ)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $r2_int_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (\forall X3.(v1_int_1 X3) \Rightarrow (\forall X4.(v1_int_1 \\ & X4) \Rightarrow (((r2_int_1 X0 X1 X2) \wedge (r2_int_1 X3 X4 X2)) \Rightarrow (r2_int_1 (k3_xcmplx_0 \\ & X0 X3) (k3_xcmplx_0 X1 X4) X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (r2_int_1 X0 X0 X1)) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (\forall X3.(v1_int_1 X3) \Rightarrow ((r2_int_1 X0 X1 X2) \Rightarrow \\ & (r2_int_1 (k3_xcmplx_0 X0 X3) (k3_xcmplx_0 X1 X3) X2)))))) \end{aligned}$$