

t12_int_5 (TMKeUp-
MqKNtTzD41FASe94PDeyF8sZvNhzn)

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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 $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_int_2 : \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (k3_int_2 (k3_xcmplx_0 X0 X1) X0 = k1_int_2 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((r1_int_1 X0 X1) \Leftrightarrow (\exists X2.(v1_int_1 X2) \wedge (X1 = k3_xcmplx_0 X0 X2)))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (k3_int_2 X0 X1 = k3_int_2 X1 X0) \quad (3)$$

Theorem 1

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((r1_int_1 X0 X1) \Rightarrow (k3_int_2 X0 X1 = k1_int_2 X0)))$$