t95_xxreal_3 (TMH98zUeiyi7skExwELf5wXkdhBBoAYELCa)

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Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k4\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow ((v1\_xreal\_0\ X0) \Rightarrow ((v1\_xreal\_0\ X1) \vee (k4\_xxreal\_3\ X0\ (k1\_xxreal\_3\ X1\ X2) = k1\_xxreal\_3\ (k4\_xxreal\_3\ X0\ X1)\ (k4\_xxreal\_3\ X0\ X2))))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow (((v1\_xreal\_0\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (k4\_xxreal\_3\ X0\ (k1\_xxreal\_3\ X1\ X2) = k1\_xxreal\_3\ (k4\_xxreal\_3\ X0\ X1)\ (k4\_xxreal\_3\ X0\ X2)))))) \tag{2}$$

Theorem 1

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow ((v1\_xreal\_0\ X0) \Rightarrow (k4\_xxreal\_3\ X0\ (k1\_xxreal\_3\ X1\ X2) = k1\_xxreal\_3\ (k4\_xxreal\_3\ X0\ X1)\ (k4\_xxreal\_3\ X0\ X2))))))$$