

t2_real_3

(TMRX1Pr6BdVuuDei9cctsY3wcppHUr2DJXi)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_int_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 \\ X0 X1) \Rightarrow ((r1_xxreal_0 (k3_real_1 (k1_int_1 X0) np_1) X1) \vee (k1_int_1 \\ X1 = k1_int_1 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow ((k1_int_1 X0 = X0) \Leftrightarrow (v1_int_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 \\ X0 X1) \Rightarrow ((r1_xxreal_0 (k3_real_1 X0 np_1) X1) \vee (k1_int_1 X1 = X0)))) \end{aligned}$$