t36_real_3 (TMLhrVg-GfU2soVADYi8FM3pueZxH3NPFE3R)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k3\_real\_3 : \iota \Rightarrow \iota$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_int\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_real\_3 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k4\_int\_1\ X0 = k5\_real\_1\ X0\ (k3\_funct\_2\ k5\_numbers\ k1\_numbers\ (k4\_real\_3\ X0)\ k6\_numbers)) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow ((k1\_seq\_1\ (k3\_real\_3\ (k10\_real\_1\ np\_\_1\ (k5\_real\_1\ X1\ (k3\_funct\_2\ k5\_numbers\ k1\_numbers\ (k4\_real\_3\ X1)\ k6\_numbers))))\ X0 = k3\_funct\_2\ k5\_numbers\ k1\_numbers\ (k3\_real\_3\ X1)\ (k1\_nat\_1\ X0\ np\_\_1)) \wedge (k1\_seq\_1\ (k4\_real\_3\ (k10\_real\_1\ np\_\_1\ (k5\_real\_1\ X1\ (k3\_funct\_2\ k5\_numbers\ k1\_numbers\ (k4\_real\_3\ X1)\ k6\_numbers))))\ X0 = k3\_funct\_2\ k5\_numbers\ k1\_numbers\ (k4\_real\_3\ X1)\ (k1\_nat\_1\ X0\ np\_\_1)))) \tag{2}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (k3\_funct\_2\ k5\_numbers\ k1\_numbers\ (k3\_real\_3\ X1)\ (k1\_nat\_1\ X0\ np\_\_1) = k1\_seq\_1\ (k3\_real\_3\ (k10\_real\_1\ np\_\_1\ (k4\_int\_1\ X1)))\ X0))$$