

## t37\_real\_3

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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  $k4\_real\_3 : \iota \Rightarrow \iota$  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  $k6\_numbers : \iota$  be given. Let  $k3\_real\_3 : \iota \Rightarrow \iota$  be given. Assume the following.

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

Assume the following.

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

### Theorem 1

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