

# l1\_int\_7

(TMdPLhbLiZzmd5czjV36q5hBj8MhESfgZY6)

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Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k16\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_valued\_0 : \iota \Rightarrow o$  be given. Let  $v2\_pre\_poly : \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $c1\_xreal\_1 : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. k1\_funct\_1 (k16\_pre\_poly X0) X1 = k6\_numbers \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v1\_relat\_1 (k8\_funcop\_1 k5\_numbers X0 k6\_numbers)) \wedge \\ & ((v4\_relat\_1 (k8\_funcop\_1 k5\_numbers X0 k6\_numbers) X0) \wedge ((v1\_funct\_1 \\ & (k8\_funcop\_1 k5\_numbers X0 k6\_numbers)) \wedge ((v1\_partfun1 (k8\_funcop\_1 \\ & k5\_numbers X0 k6\_numbers) X0) \wedge ((v4\_valued\_0 (k8\_funcop\_1 k5\_numbers \\ & X0 k6\_numbers)) \wedge (v2\_pre\_poly (k8\_funcop\_1 k5\_numbers X0 k6\_numbers)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1. \forall X2. \\ & \forall X3. (X2 \neq X3) \Rightarrow (k1\_funct\_1 (k2\_funct\_7 X0 X2 X1) X3 = k1\_funct\_1 \\ & X0 X3)) \end{aligned} \quad (3)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (4)$$

Assume the following.

$$c1\_xreal\_1 = k6\_numbers \quad (5)$$

Assume the following.

$$\forall X0. k16\_pre\_poly X0 = k8\_funcop\_1 k5\_numbers X0 k6\_numbers \quad (6)$$

**Theorem 1**

$$\forall X0.\forall X1.\forall X2.\forall X3.(X3 \neq X0) \Rightarrow (k1\_funct\_1$$
$$(k2\_funct\_7 (k8\_funcop\_1 k5\_numbers X1 k6\_numbers) X0 X2) X3 = k6\_numbers)$$