

## t26\_int\_6

(TMQQa88m3xaX7gGepEYZjVEGL7mGoCtkwJ4)

October 27, 2020

Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_numbers : \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Let  $v1\_partfun3 : \iota \Rightarrow o$  be given. Let  $v1\_int\_6 : \iota \Rightarrow o$  be given. Let  $m1\_int\_6 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k4\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $r2\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k19\_rvsum\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. (& (v1\_relat\_1 X0) \wedge ((v5\_relat\_1 X0 k4\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((\neg v1\_xboole\_0 X0) \wedge ((v1\_finseq\_1 X0) \wedge ((v1\_partfun3 X0) \wedge \\ & (v1\_int\_6 X0)))))) \Rightarrow (\forall X1. (m1\_int\_6 X1 X0) \Rightarrow ((v1\_relat\_1 \\ & X1) \wedge ((v1\_funct\_1 X1) \wedge (v1\_finseq\_1 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (v1\_relat\_1 X0) \wedge ((v5\_relat\_1 X0 k4\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((\neg v1\_xboole\_0 X0) \wedge ((v1\_finseq\_1 X0) \wedge ((v1\_partfun3 X0) \wedge \\ & (v1\_int\_6 X0)))))) \Rightarrow (\forall X1. ((v1\_relat\_1 X1) \wedge ((v1\_funct\_1 \\ & X1) \wedge (v1\_finseq\_1 X1))) \Rightarrow ((m1\_int\_6 X1 X0) \Leftrightarrow ((k3\_finseq\_1 X1 = k3\_finseq\_1 \\ & X0) \wedge (\forall X2. (v7\_ordinal1 X2) \Rightarrow (\neg (X2 \in k4\_finseq\_1 X1) \wedge (\forall X3. \\ & (v1\_int\_1 X3) \Rightarrow (\forall X4. (v1\_int\_1 X4) \Rightarrow (\neg (X4 = k7\_xcmplx\_0 ( \\ & k19\_rvsum\_1 X0) (k1\_funct\_1 X0 X2)) \wedge ((r2\_int\_1 (k3\_xcmplx\_0 X3 \\ & X4) np\_1 (k1\_funct\_1 X0 X2)) \wedge (k1\_funct\_1 X1 X2 = k3\_xcmplx\_0 X3 \\ & (k7\_xcmplx\_0 (k19\_rvsum\_1 X0) (k1\_funct\_1 X0 X2)))))))))) \end{aligned} \quad (2)$$

### Theorem 1

$$\begin{aligned} \forall X0. (& (v1\_relat\_1 X0) \wedge ((v5\_relat\_1 X0 k4\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((\neg v1\_xboole\_0 X0) \wedge ((v1\_finseq\_1 X0) \wedge ((v1\_partfun3 X0) \wedge \\ & (v1\_int\_6 X0)))))) \Rightarrow (\forall X1. (m1\_int\_6 X1 X0) \Rightarrow (\forall X2. \\ & (v7\_ordinal1 X2) \Rightarrow ((X2 \in k4\_finseq\_1 X1) \Rightarrow (r2\_int\_1 (k1\_funct\_1 \\ & X1 X2) np\_1 (k1\_funct\_1 X0 X2)))) \end{aligned}$$