

## t12\_int\_4

(TMZZ1Uv6VSbkKPTTnDea6PxNsUVHCcru6t5)

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Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k6\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r2\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_int\_1 X0) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (\forall X2. \\ & (v1\_int\_1 X2) \Rightarrow (((k6\_int\_1 X1 X0 = k6\_int\_1 X2 X0) \Rightarrow ((X0 = k6\_numbers) \vee \\ & (r2\_int\_1 X1 X2 X0)))) \wedge ((r2\_int\_1 X1 X2 X0) \Rightarrow (k6\_int\_1 X1 X0 = k6\_int\_1 \\ & X2 X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (k6\_int\_1 X0 X0 = k6\_numbers) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow ((r2\_int\_1 X0 k6\_numbers X0) \wedge (r2\_int\_1 k6\_numbers X0 X0)) \tag{3}$$

Assume the following.

$$\exists X0.v1\_int\_1 X0 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1 X0) \wedge (v1\_int\_1 X1)) \Rightarrow (v1\_int\_1 (k6\_int\_1 X0 X1)) \tag{5}$$

**Theorem 1**  $\forall X0.(v1\_int\_1 X0) \Rightarrow (k6\_numbers = k6\_int\_1 k6\_numbers X0)$ .