

## t37\_integra8

(TMYfhs93Xe225JqCXdu7qntAGDz78TbQPuA)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v2\_measure5 : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $k5\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1\_xboole\_0 X0) \wedge ((v2\_measure5 X0) \wedge (m1\_subset\_1 \\ & X0 (k1\_zfmisc\_1 k1\_numbers)))) \Rightarrow (\forall X1. (v1\_xreal\_0 X1) \Rightarrow \\ & (\forall X2. (v1\_xreal\_0 X2) \Rightarrow (\forall X3. (v1\_xreal\_0 X3) \Rightarrow (\forall X4. \\ & (v1\_xreal\_0 X4) \Rightarrow (((X0 = k1\_rcomp\_1 X1 X3) \wedge (X0 = k1\_rcomp\_1 X2 X4)) \Rightarrow \\ & ((X1 = X2) \wedge (X3 = X4))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1\_xboole\_0 X0) \wedge ((v2\_measure5 X0) \wedge (m1\_subset\_1 \\ & X0 (k1\_zfmisc\_1 k1\_numbers)))) \Rightarrow (X0 = k1\_rcomp\_1 (k5\_seq\_4 X0) \\ & (k4\_seq\_4 X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (m1\_subset\_1 (k5\_seq\_4 X0) k1\_numbers) \tag{3}$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (m1\_subset\_1 (k4\_seq\_4 X0) k1\_numbers) \tag{4}$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \tag{5}$$

### Theorem 1

$$\begin{aligned} & \forall X0. (m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1. (m1\_subset\_1 \\ & X1 k1\_numbers) \Rightarrow (\forall X2. ((\neg v1\_xboole\_0 X2) \wedge ((v2\_measure5 \\ & X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 k1\_numbers)))) \Rightarrow ((X2 = k1\_rcomp\_1 \\ & X0 X1) \Rightarrow ((k4\_seq\_4 X2 = X1) \wedge (k5\_seq\_4 X2 = X0)))))) \end{aligned}$$