

# l23\_numbers

(TMF9PDLEncT23aaVhmN7tRhEQkDnVjfqCvv)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_arytm\_3 : \iota$  be given. Let  $k9\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_arytm\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $c2\_numbers : \iota$  be given. Let  $k12\_arytm\_3 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k5\_arytm\_3) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 k5\_arytm\_3) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k5\_arytm\_3) \Rightarrow (k10\_arytm\_3 \\ X0 (k9\_arytm\_3 X1 X2) = k9\_arytm\_3 (k10\_arytm\_3 X0 X1) (k10\_arytm\_3 \\ X0 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k5\_arytm\_3) \Rightarrow (k10\_arytm\_3 X0 k12\_arytm\_3 = X0) \tag{2}$$

Assume the following.

$$k9\_arytm\_3 k12\_arytm\_3 k12\_arytm\_3 = c2\_numbers \tag{3}$$

Assume the following.

$$(\neg v1\_xboole\_0 k12\_arytm\_3) \wedge ((v3\_ordinal1 k12\_arytm\_3) \wedge (m1\_subset\_1 \\ k12\_arytm\_3 k5\_arytm\_3)) \tag{4}$$

Assume the following.

$$(v3\_ordinal1 c2\_numbers) \wedge (m1\_subset\_1 c2\_numbers k5\_arytm\_3) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k5\_arytm\_3) \wedge (m1\_subset\_1 \\ X1 k5\_arytm\_3)) \Rightarrow (k10\_arytm\_3 X0 X1 = k10\_arytm\_3 X1 X0) \tag{6}$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 k5\_arytm\_3) \Rightarrow (k9\_arytm\_3 X0 X0 = k10\_arytm\_3 \\ c2\_numbers X0)$$