

## l3\_arithm

(TMNkzmxVqgfAgxHQ3yM2KqeZjZzE7yMW2iX)

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Let  $k3\_arytm\_0 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $c2\_arytm\_0 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k1\_numbers) \Rightarrow ((X1 = k6\_numbers) \Rightarrow (k1\_arytm\_0 X0 X1 = X0))) \end{aligned} \quad (1)$$

Assume the following.

$$m1\_subset\_1 k6\_numbers k1\_numbers \quad (2)$$

Assume the following.

$$c2\_arytm\_0 = k6\_numbers \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k1\_numbers) \Rightarrow ((X1 = k3\_arytm\_0 X0) \Leftrightarrow (k1\_arytm\_0 X0 X1 = k6\_numbers))) \end{aligned} \quad (4)$$

**Theorem 1**  $k3\_arytm\_0 k6\_numbers = k6\_numbers$ .