

# t15\_algstr\_1 (TMXyiBZaRopDGnfGygBcsTm- Lir9We7qGyKk)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k11\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 k1\_numbers) \Rightarrow (\neg(X0 \neq k6\_numbers) \wedge (\forall X2.(m1\_subset\_1 \\ X2 k1\_numbers) \Rightarrow (X1 \neq k11\_binop\_2 X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0) \wedge (v1\_xreal\_0 X1)) \Rightarrow (k11\_binop\_2 \\ X0 X1 = k11\_binop\_2 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (3)$$

## Theorem 1

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 k1\_numbers) \Rightarrow (\neg(X0 \neq k6\_numbers) \wedge (\forall X2.(m1\_subset\_1 \\ X2 k1\_numbers) \Rightarrow (X1 \neq k11\_binop\_2 X2 X0)))) \end{aligned}$$