

# 147\_sin\_cos2 (TMdAUp- fyG6XChJ3Dpubc1MxSyDggUuWVgXq)

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Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k31\_binop\_2 : \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 X0 X0) \wedge \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0)))))) \Rightarrow (k1\_relset\_1 \\ & X0 X1 = X0) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & (v1\_funct\_1 k31\_binop\_2) \wedge ((v1\_funct\_2 k31\_binop\_2 k1\_numbers \\ & k1\_numbers) \wedge (m1\_subset\_1 k31\_binop\_2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & k1\_numbers k1\_numbers)))) \end{aligned} \tag{2}$$

**Theorem 1**  $k1\_relset\_1 k1\_numbers k31\_binop\_2 = k1\_numbers$ .