

# l22\_matrixc1 (TMT- pZCa3xSxPMKmbGFEEccgCGwS6kLni9ecv)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_numbers : \iota$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k12\_seq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_finseqop : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k29\_binop\_2 : \iota$  be given. Let  $k6\_partfun1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2\_finseq\_1 X0 k2\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k2\_numbers) \Rightarrow (k12\_seq\_4 X0 X1 = k4\_finseqop k2\_numbers k2\_numbers \\ & X0 (k10\_funcop\_1 k2\_numbers k2\_numbers k29\_binop\_2 X1 (k6\_partfun1 \\ & k2\_numbers)))) \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k2\_numbers) \Rightarrow (\forall X1.(m2\_finseq\_1 \\ & X1 k2\_numbers) \Rightarrow (k12\_seq\_4 X1 X0 = k4\_finseqop k2\_numbers k2\_numbers \\ & X1 (k10\_funcop\_1 k2\_numbers k2\_numbers k29\_binop\_2 X0 (k6\_partfun1 \\ & k2\_numbers)))) \end{aligned}$$