

# l21\_matrprob (TMQNYdGs- FwXSvV2soUC6Ht17Tfo5CN1kkjg)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v1\_matrix\_1 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_finseq\_2 : \iota \Rightarrow \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_matrix\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_matrix\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k8\_matrix\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k1\_matrprob : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. ((v1\_matrix\_1 X1) \wedge \\ (m2\_finseq\_1 X1 (k3\_finseq\_2 X0))) \Rightarrow (\forall X2. (v7\_ordinal1 \\ X2) \Rightarrow ((X2 \in k4\_finseq\_1 X1) \Rightarrow (k1\_funct\_1 X1 X2 = k8\_matrix\_1 X0 X1 \\ X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xboole\_0 X1) \wedge \\ (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X2. (m2\_subset\_1 \\ X2 X0 X1) \Leftrightarrow (m1\_subset\_1 X2 X1)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \tag{3}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((m1\_finseq\_1 X1 (k3\_finseq\_2 \\ X0)) \wedge (v7\_ordinal1 X2)) \Rightarrow (k1\_matrprob X0 X1 X2 = k1\_funct\_1 X1 X2) \end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.((v1\_matrix\_1 \\
& X1) \wedge (m2\_finseq\_1 X1 (k3\_finseq\_2 k1\_numbers))) \Rightarrow ((\forall X2. \\
& (m2\_subset\_1 X2 k1\_numbers k5\_numbers) \Rightarrow (\forall X3.(m2\_subset\_1 \\
& X3 k1\_numbers k5\_numbers) \Rightarrow ((k4\_tarSKI X2 X3 \in k2\_matrix\_1 X1) \Rightarrow \\
& (r1\_xxreal\_0 X0 (k3\_matrix\_1 k1\_numbers X1 X2 X3)))))) \Leftrightarrow (\forall X2. \\
& (m2\_subset\_1 X2 k1\_numbers k5\_numbers) \Rightarrow (\forall X3.(m2\_subset\_1 \\
& X3 k1\_numbers k5\_numbers) \Rightarrow (((X2 \in k4\_finseq\_1 X1) \wedge (X3 \in k4\_finseq\_1 \\
& (k1\_matrprob k1\_numbers X1 X2))) \Rightarrow (r1\_xxreal\_0 X0 (k1\_seq\_1 (k1\_matrprob \\
& k1\_numbers X1 X2) X3))))))
\end{aligned} \tag{6}$$

Assume the following.

$$(\neg v1\_xboole\_0 k4\_ordinal1) \wedge (v3\_ordinal1 k4\_ordinal1) \tag{7}$$

Assume the following.

$$\neg v1\_xboole\_0 k1\_numbers \tag{8}$$

Assume the following.

$$m1\_subset\_1 k5\_numbers (k1\_zfmisc\_1 k1\_numbers) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \tag{10}$$

**Theorem 1**

$$\begin{aligned}
& \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.((v1\_matrix\_1 \\
& X1) \wedge (m2\_finseq\_1 X1 (k3\_finseq\_2 k1\_numbers))) \Rightarrow ((\forall X2. \\
& (m2\_subset\_1 X2 k1\_numbers k5\_numbers) \Rightarrow (\forall X3.(m2\_subset\_1 \\
& X3 k1\_numbers k5\_numbers) \Rightarrow ((k4\_tarSKI X2 X3 \in k2\_matrix\_1 X1) \Rightarrow \\
& (r1\_xxreal\_0 X0 (k3\_matrix\_1 k1\_numbers X1 X2 X3)))))) \Leftrightarrow (\forall X2. \\
& (m2\_subset\_1 X2 k1\_numbers k5\_numbers) \Rightarrow (\forall X3.(m2\_subset\_1 \\
& X3 k1\_numbers k5\_numbers) \Rightarrow (((X2 \in k4\_finseq\_1 X1) \wedge (X3 \in k4\_finseq\_1 \\
& (k8\_matrix\_1 k1\_numbers X1 X2))) \Rightarrow (r1\_xxreal\_0 X0 (k1\_seq\_1 (k8\_matrix\_1 \\
& k1\_numbers X1 X2) X3))))))
\end{aligned}$$