

## t34\_prob\_3

(TMN4m1MKumvw8mhoPuPAfgJE33SYu6pTEaT)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_xboole_0 : \iota \Rightarrow o$  be given. Let  $v1\_prob_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_prob_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc_1 : \iota \Rightarrow \iota$  be given. Let  $v5\_relat_1 : \iota \Rightarrow \iota \Rightarrow o$  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  $k5\_numbers : \iota$  be given. Let  $k9\_setfam_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_prob_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_prob_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.\forall X2.((v1\_funct_1 \\ & X2) \wedge ((v1\_funct_2 X2 k5\_numbers (k9\_setfam_1 X1)) \wedge (m1\_subset_1 \\ & X2 (k1\_zfmisc_1 (k2\_zfmisc_1 k5\_numbers (k9\_setfam_1 X1)))))) \Rightarrow \\ & (r1\_tarski (k1\_funct_1 (k3\_prob_3 X1 X2) X0) (k1\_funct_1 (k2\_prob_3 \\ & X1 X2) X0))) \end{aligned} \tag{1}$$

### Theorem 1

$$\begin{aligned} & \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.\forall X2.((\neg v1\_xboole_0 \\ & X2) \wedge ((v1\_prob_1 X2 X1) \wedge ((v4\_prob_1 X2 X1) \wedge (m1\_subset_1 X2 (k1\_zfmisc_1 \\ & (k1\_zfmisc_1 X1)))))) \Rightarrow (\forall X3.((v5\_relat_1 X3 X2) \wedge ((v1\_funct_1 \\ & X3) \wedge ((v1\_funct_2 X3 k5\_numbers (k9\_setfam_1 X1)) \wedge (m1\_subset_1 \\ & X3 (k1\_zfmisc_1 (k2\_zfmisc_1 k5\_numbers (k9\_setfam_1 X1)))))) \Rightarrow \\ & (r1\_tarski (k1\_funct_1 (k3\_prob_3 X1 X3) X0) (k1\_funct_1 (k2\_prob_3 \\ & X1 X3) X0))) \end{aligned}$$