

t8_borsuk_5 (TMGNNBm-
rofVkb8oZkfUUuguGzavyUFGqZtK)

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Let $r5_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\
 & \forall X6. (r5_zfmisc_1 X0 X1 X2 X3 X4 X5 X6) \Leftrightarrow ((X0 \neq X1) \wedge ((X0 \neq X2) \wedge \\
 & ((X0 \neq X3) \wedge ((X0 \neq X4) \wedge ((X0 \neq X5) \wedge ((X0 \neq X6) \wedge ((X1 \neq X2) \wedge ((X1 \neq X3) \wedge \\
 & (X1 \neq X4) \wedge ((X1 \neq X5) \wedge ((X1 \neq X6) \wedge ((X2 \neq X3) \wedge ((X2 \neq X4) \wedge ((X2 \neq X5) \wedge ((\\
 & X2 \neq X6) \wedge ((X3 \neq X4) \wedge ((X3 \neq X5) \wedge ((X3 \neq X6) \wedge ((X4 \neq X5) \wedge ((X4 \neq X6) \wedge (X5 \neq \\
 & X6))))))))))))))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\
 & \forall X6. (r5_zfmisc_1 X0 X1 X2 X3 X4 X5 X6) \Rightarrow (r5_zfmisc_1 X6 X0 X1 \\
 & X2 X3 X4 X5)
 \end{aligned}$$