

# t29\_conlat\_1 (TMazmsWCi- UyNg4izzUVBCKsrMqDNdPXBWCv)

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Let  $v1\_conlat\_1 : \iota \Rightarrow o$  be given. Let  $l1\_conlat\_1 : \iota \Rightarrow o$  be given. Let  $v5\_conlat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v7\_conlat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l2\_conlat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r2\_conlat\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u3\_conlat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v1\_conlat\_1 X0) \wedge (l1\_conlat\_1 X0)) \Rightarrow (\forall X1. \\
 & ((\neg v5\_conlat\_1 X1 X0) \wedge ((v7\_conlat\_1 X1 X0) \wedge (l2\_conlat\_1 X1 X0))) \Rightarrow \\
 & (\forall X2.((\neg v5\_conlat\_1 X2 X0) \wedge ((v7\_conlat\_1 X2 X0) \wedge (l2\_conlat\_1 \\
 & X2 X0)))) \Rightarrow ((r2\_conlat\_1 X0 X1 X2) \Leftrightarrow (r1\_tarski (u3\_conlat\_1 X0 X2) \\
 & (u3\_conlat\_1 X0 X1))))))
 \end{aligned} \tag{1}$$

## Theorem 1

$$\begin{aligned}
 & \forall X0.((\neg v1\_conlat\_1 X0) \wedge (l1\_conlat\_1 X0)) \Rightarrow (\forall X1. \\
 & ((\neg v5\_conlat\_1 X1 X0) \wedge ((v7\_conlat\_1 X1 X0) \wedge (l2\_conlat\_1 X1 X0))) \Rightarrow \\
 & (\forall X2.((\neg v5\_conlat\_1 X2 X0) \wedge ((v7\_conlat\_1 X2 X0) \wedge (l2\_conlat\_1 \\
 & X2 X0)))) \Rightarrow ((r2\_conlat\_1 X0 X2 X1) \Leftrightarrow (r1\_tarski (u3\_conlat\_1 X0 X1) \\
 & (u3\_conlat\_1 X0 X2))))))
 \end{aligned}$$