

Assume the following.

$$\begin{aligned}
& \forall A_27a.nonempty\ A_27a \Rightarrow \forall A_27b.nonempty\ A_27b \Rightarrow (\\
& \quad \forall V0f \in (A_27b^{A_27a}). (\forall V1s \in (2^{A_27b}). (\forall V2x \in \\
& A_27a. ((p (ap (ap (c_2Ebool_2EIN\ A_27a)\ V2x) (ap (ap (ap (c_2Equotient_2E_2D_2D_3E \\
& \quad A_27a\ 2\ A_27b\ 2)\ V0f) (c_2Ecombin_2EI\ 2))\ V1s)))) \Leftrightarrow (p (ap (ap (c_2Ebool_2EIN \\
& \quad A_27b) (ap\ V0f\ V2x))\ V1s))))))
\end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned}
& \forall A_27a.nonempty\ A_27a \Rightarrow \forall A_27b.nonempty\ A_27b \Rightarrow (\\
& \quad \forall V0R \in ((2^{A_27a})^{A_27a}). (\forall V1abs \in (A_27b^{A_27a}). \\
& (\forall V2rep \in (A_27a^{A_27b}). ((p (ap (ap (ap (c_2Equotient_2EQUOTIENT \\
& \quad A_27a\ A_27b)\ V0R)\ V1abs)\ V2rep)) \Rightarrow (\forall V3x \in A_27b. (\forall V4s \in \\
& \quad (2^{A_27b}). ((p (ap (ap (c_2Ebool_2EIN\ A_27b)\ V3x)\ V4s)) \Leftrightarrow (p (ap (\\
& \quad ap (c_2Ebool_2EIN\ A_27a) (ap\ V2rep\ V3x)) (ap (ap (ap (c_2Equotient_2E_2D_2D_3E \\
& \quad A_27a\ 2\ A_27b\ 2)\ V1abs) (c_2Ecombin_2EI\ 2))\ V4s))))))))))
\end{aligned}$$