

t7\_qmax\_1  
(TMWfso3487Rn2t6TLmisG8TiCyuPYLRJuZT)

October 27, 2020

Let  $v2\_qmax\_1 : \iota \Rightarrow o$  be given. Let  $l1\_qmax\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_qmax\_1 : \iota \Rightarrow \iota$  be given. Let  $r4\_qmax\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_qmax\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k12\_prob\_1 : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k4\_qmax\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_qmax\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_qmax\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
& \forall X0.((v2\_qmax\_1 X0) \wedge (l1\_qmax\_1 X0)) \Rightarrow (\forall X1.(m1\_subset\_1 \\
& X1 (k5\_qmax\_1 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (k5\_qmax\_1 X0)) \Rightarrow \\
& ((r4\_qmax\_1 X0 X1 X2) \Leftrightarrow (\forall X3.(m1\_subset\_1 X3 (k3\_qmax\_1 X0)) \Rightarrow \\
& (k3\_funct\_2 k12\_prob\_1 k1\_numbers (k4\_qmax\_1 X0 (k6\_qmax\_1 X0 \\
& X1) X3) (k7\_qmax\_1 X0 X1) = k3\_funct\_2 k12\_prob\_1 k1\_numbers (k4\_qmax\_1 \\
& X0 (k6\_qmax\_1 X0 X2) X3) (k7\_qmax\_1 X0 X2))))))
\end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned}
& \forall X0.((v2\_qmax\_1 X0) \wedge (l1\_qmax\_1 X0)) \Rightarrow (\forall X1.(m1\_subset\_1 \\
& X1 (k5\_qmax\_1 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (k5\_qmax\_1 X0)) \Rightarrow \\
& (\forall X3.(m1\_subset\_1 X3 (k5\_qmax\_1 X0)) \Rightarrow (((r4\_qmax\_1 X0 X1 \\
& X2) \wedge (r4\_qmax\_1 X0 X2 X3)) \Rightarrow (r4\_qmax\_1 X0 X1 X3))))))
\end{aligned}$$