

# t9\_fdifff\_2 (TMKPbB- vTcN4bX5ks4B8LMRzKdXhBG8ru5vq)

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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  $k1\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
& \forall X0.((v1\_funct\_1 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\
& \quad k1\_numbers k1\_numbers)))) \Rightarrow (\forall X1.((v1\_funct\_1 X1) \wedge (m1\_subset\_1 \\
& \quad X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \Rightarrow (\forall X2. \\
& ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 k5\_numbers k1\_numbers) \wedge (m1\_subset\_1 \\
& \quad X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow ((r1\_tarski \\
& \quad (k2\_relset\_1 k1\_numbers X2) (k1\_relset\_1 k1\_numbers (k1\_partfun1 \\
& \quad k1\_numbers k1\_numbers k1\_numbers k1\_numbers X1 X0))) \Rightarrow ((r1\_tarski \\
& \quad (k2\_relset\_1 k1\_numbers X2) (k1\_relset\_1 k1\_numbers X1)) \wedge (r1\_tarski \\
& \quad (k2\_relset\_1 k1\_numbers (k8\_funct\_2 k5\_numbers k1\_numbers k1\_numbers \\
& \quad X2 X1)) (k1\_relset\_1 k1\_numbers X0))))))
\end{aligned} \tag{1}$$

## Theorem 1

$$\begin{aligned}
& \forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge \\
& (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow \\
& (\forall X1.((v1\_funct\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\
& \quad k1\_numbers k1\_numbers)))) \Rightarrow (\forall X2.((v1\_funct\_1 X2) \wedge (m1\_subset\_1 \\
& \quad X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers)))) \Rightarrow ((r1\_tarski \\
& \quad (k2\_relset\_1 k1\_numbers X0) (k1\_relset\_1 k1\_numbers (k1\_partfun1 \\
& \quad k1\_numbers k1\_numbers k1\_numbers k1\_numbers X2 X1))) \Rightarrow ((r1\_tarski \\
& \quad (k2\_relset\_1 k1\_numbers X0) (k1\_relset\_1 k1\_numbers X2)) \wedge (r1\_tarski \\
& \quad (k2\_relset\_1 k1\_numbers (k8\_funct\_2 k5\_numbers k1\_numbers k1\_numbers \\
& \quad X0 X2)) (k1\_relset\_1 k1\_numbers X1))))))
\end{aligned}$$