

# t41\_mmlquery

(TMRpxKyZkQdmcfmRoiD44mwjDSffnngfYkQ)

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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  $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k18\_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \Rightarrow (k1\_relset\_1 X0 (k18\_mmlquery X0 (k18\_mmlquery X0 X1))) = k1\_relset\_1 X0 X1 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X2 X2))) \Rightarrow ((k4\_tarski X0 X1 \in k18\_mmlquery X2 X3) \Leftrightarrow ((X0 = X1) \wedge ((X0 \in X2) \wedge (\neg X0 \in k1\_relset\_1 X2 X3)))) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \Rightarrow (m1\_subset\_1 (k18\_mmlquery X0 X1) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \Rightarrow (\forall X3. (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \Rightarrow ((r2\_relset\_1 X0 X1 X2 X3) \Leftrightarrow (\forall X4. (m1\_subset\_1 X4 X0) \Rightarrow (\forall X5. (m1\_subset\_1 X5 X1) \Rightarrow ((k4\_tarski X4 X5 \in X2) \Leftrightarrow (k4\_tarski X4 X5 \in X3)))))) \tag{4}$$

**Theorem 1**

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \Rightarrow (r2\_relset\_1 X0 X0 (k18\_mmlquery X0 (k18\_mmlquery X0 (k18\_mmlquery X0 X1))) (k18\_mmlquery X0 X1))$$