t6_dist_1 (TMKjoY2Pr7QyiEVB5ayLbY726ZfYeP8c8kT)

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Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_dist\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_dist\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (\forall X1.(m2\_finseq\_1\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow ((r1\_dist\_1\ X0\ X1\ X2) \Leftrightarrow (\forall X3.\ k3\_dist\_1\ X0\ X1\ X3 = k3\_dist\_1\ X0\ X2\ X3)))) \tag{1}$$

Theorem 1

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (\forall X1.(m2\_finseq\_1\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ X0) \Rightarrow (((r1\_dist\_1\ X0\ X1\ X2) \wedge (r1\_dist\_1\ X0\ X2\ X3)) \Rightarrow (r1\_dist\_1\ X0\ X1\ X3)))))$$