

# t2\_vectmetr (TMLgMP- BkyEBN7BdGVFyDKDLxJACn99AytNN)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_metric\_1 : \iota \Rightarrow o$  be given. Let  $v2\_funct\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v3\_vectmetr : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge (l1\_metric\_1 X0)) \Rightarrow ((v1\_funct\_1 \\ &(k3\_struct\_0 X0)) \wedge ((v1\_funct\_2 (k3\_struct\_0 X0) (u1\_struct\_0 \\ X0) (u1\_struct\_0 X0)) \wedge ((v2\_funct\_2 (k3\_struct\_0 X0) (u1\_struct\_0 \\ X0)) \wedge (v3\_vectmetr (k3\_struct\_0 X0) X0)))) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} \forall X0. (&(\neg v2\_struct\_0 X0) \wedge (l1\_metric\_1 X0)) \Rightarrow ((v2\_funct\_2 \\ &(k3\_struct\_0 X0) (u1\_struct\_0 X0)) \wedge (v3\_vectmetr (k3\_struct\_0 \\ &X0) X0)) \end{aligned}$$