Te 
$$\mathcal{L}(F^m, F^m)$$
 $\exists A_{j,k} \in F, j = a...m, k = a...m:$ 
 $T(x_{a_1,...,1}x_m) = (A_{a_1}x_1 + ... + A_{a_1,m}x_m) + A_{m,m}x_1 + ... + A_{m,m}x_m)$ 
 $\forall (x_{a_1,...,1}x_m) \in F^m$ 
 $\exists A_{j,k} \in F, j = a...m, k = a...m:$ 
 $\forall (x_{a_1,...,1}x_m) = (A_{a_1}x_1 + ... + A_{a_1,m}x_m) + A_{m,m}x_1 + ... + A_{m,m}x_m)$ 
 $\exists A_{j,k} \in F, j = a...m, k = a...m:$ 
 $\forall (x_{a_1,...,1}x_m) = (A_{a_1}x_1 + ... + A_{a_1,m}x_m) + A_{m,m}x_1 + ... + A_{m,m}x_m)$ 
 $\exists A_{j,k} \in F, j = a...m, k = a...m:$ 
 $\forall (x_{a_1,...,1}x_m) = (A_{a_1,1}x_1 + ... + A_{a_1,m}x_m) + A_{m,m}x_1 + ... + A_{m,m}x_m)$ 
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 $\exists A_{j,k} \in F, j = a...m:$ 
 $\exists A_{j,k} \in F, j$ 

(mxm, A +...+ xxm)=(A, x, + +...+ A, mxm, + +...+ A, mxm)=(mxi, ..., x) = A,iA E (=