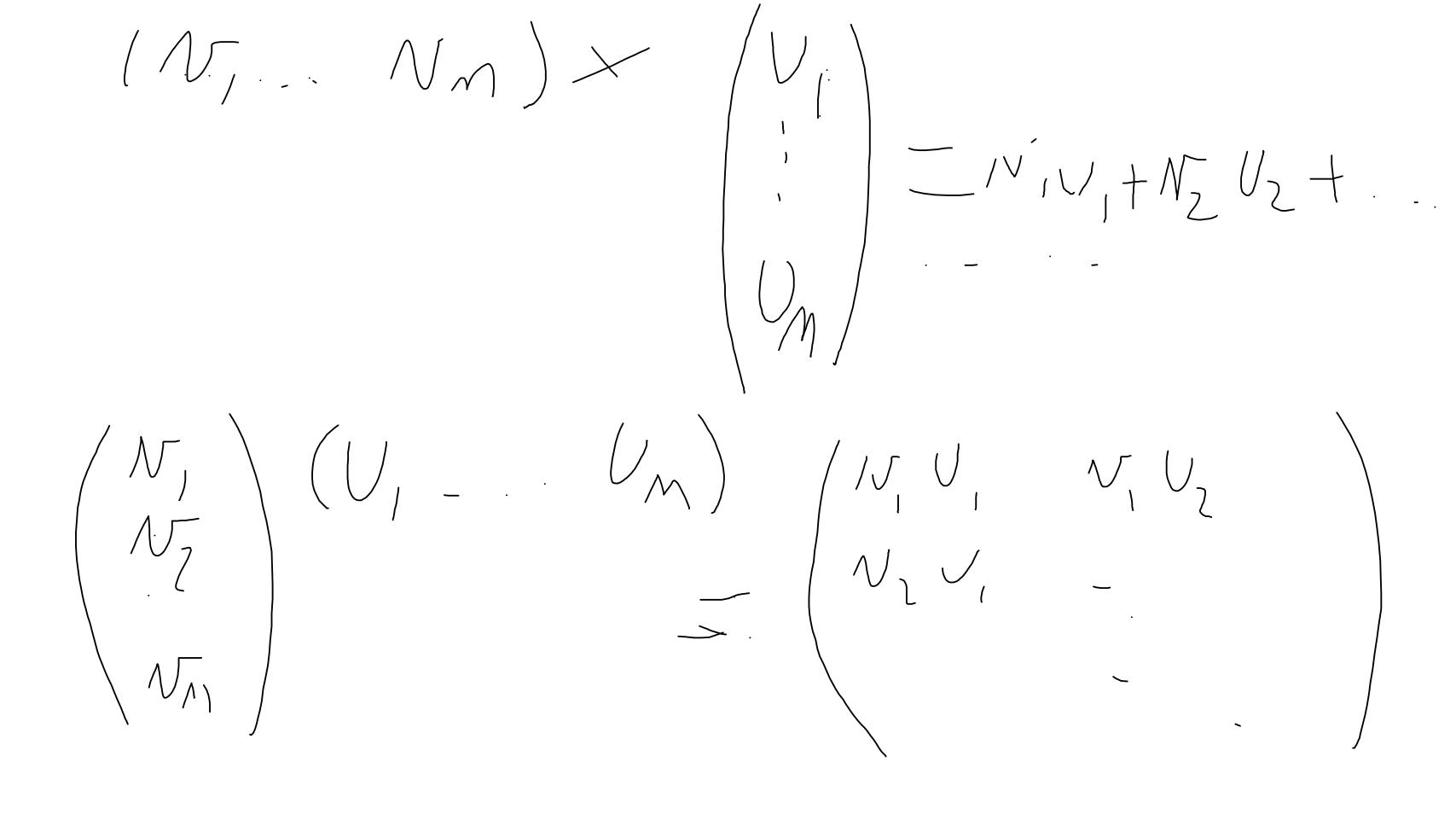
SCALAR SONLY MAGNITUDE VECTOR (O, QZ, Q3 - QM) MATRIX A ELEMENT QI M = (M, M, M)NT = (N) MATRIX MULTIPLICATION

(A) box = (A)



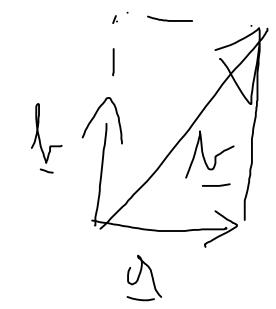
VECTORS IN PHYSICS NFEDABIS V = 1 1 + 4 1 + 2 K VECTOR SUM

USUALLY AXES ORTHOGONAL, BUT.

SUPPOSE JANA

TAKE VECTOR MC 1,2)

FOR ORTHSNORMAL CHOICE



SUBTRACTING VECTORS L = W1+4J+2K 5 - e i + b J + C K

SCALAR PRODUCT - KS = QU+LY+CZ MAGNITUDE OF VECTOR = VIN FOR URTHONORMAL BASIS ORTHOGONAL L J = v = j K LI=IIZ=JJ=JZ=IKZ=1 NORMALIJED b.e._16/10/00/00/-0/-

PROJECTIONS a.f. - 12/16/607 DIVIDE BY ILI l / - 12 | G, D L-UNIT VECTOR OF DIRECTION BY
-> PROJECTION OF 9 ALDNG DIRECTION & -> 9.6 BASIS TRANSFUR MATION $\frac{1}{3!} = \chi_{,1} + 4, J$ $\frac{1}{3!} = \chi_{,0} +$