(V3, P, +, ·) -? V3 un la reau bennors 1° (u+v)+w=u+(v+w) - bunais 2° 3 ō - luman. 3° 3 (-v) - lumam. 4° 11+1=1+11 - burnour 5° L(BV)=(2B)V - lumay. 6° 1 V = V - homan. 7° (2+B) V = LV + BV - lumarre. 8° (U+U) 1 = U1 + V1 - Coman. (V3, P,+, .) - My np-b (R", P, -, ·) -? R' un la apriopie " Kain lecuropol 1º lomate. 2º lemare. 3° bernan. 40 leamour. ¿ bumarre. 6° leverare. 70 burnain go lumani. (R, P,+,0) - ms. np-ls

Melo Pr unormendo p(t) = any Ent + 4 a1 E + a0 1°-8°- luman => [Pn, K, +, .) - une np-60 Mails Crass less oprif (t) mennep ma ompegne [9,6] 1°-8°-luman => (CEQ.65, P, +, .)- muse np-lo Mr. lo Mmxn manying paguepa mxn 10-8° - leverson. => [Mmxn, P, +, .) - mor. pp. ls My lo VI reau liexmonol Kaller. Ogresi nomeron 1°-8° - leverage => (V, P, t, o) - wise up-lo Mr. lo V2 rem. bermopol ucxog, u rarama koopa 10- Me boman, m. K. (U+V)+W=S, S&V2=>(V2,P,+,.)-Me ab un np Moe-lo Vy rou beam, ygobe. Yarolius 1x1>a, rge a>0 1º-8º- lumora => ( V4, P,+,0) - ulke.mp-lo Mr. lo X cocog. nocu 10-80- Comaine => (X,P,+,0) - rune np. ls Mr. le Y pacocog. noar 1 1°-8°- lumar. => (Y, P,+,.) - rung up. ls

p'(ė, ė, ė)  $E_1 = \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix} \quad E_2 = \begin{pmatrix} 1 \\ -1 \end{pmatrix} \quad E_3 = \begin{pmatrix} -7 \\ 2 \\ -1 \end{pmatrix}$ A= (1-1-1) det A= 2 70=7 N/3=7 B'le'1, e'2, e'3)- Sayne V3  $X = \begin{pmatrix} 1 \\ -2 \\ 2 \end{pmatrix}$   $X' = \begin{pmatrix} 1 \\ 2 \\ 2 \end{pmatrix} \begin{pmatrix} 1 & 7 & 1 \\ 1 & -1 & -3 \\ 0 & 0 & -2 \end{pmatrix} \begin{pmatrix} 1 \\ -2 \\ 2 \end{pmatrix} = \frac{1}{2} \begin{pmatrix} 1 \\ -3 \\ 4 \end{pmatrix} = 7 \times \frac{1}{2} e_1' - \frac{3}{2} e_2' + 2 e_3'$  $E_{1}^{1} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} \quad E_{2}^{1} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} \quad E_{3}^{1} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$  $T_{\beta \rightarrow \beta'} = \begin{bmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{bmatrix} \quad \begin{bmatrix} T_{\beta \rightarrow \beta'} \end{bmatrix}^{-1} = \begin{bmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$  $X = \begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix}$   $X' = \begin{pmatrix} -1 & 0 & 0 \\ 0 & 0 & -1 \end{pmatrix} \begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix} = \begin{pmatrix} -1 \\ 2 \\ -1 \end{pmatrix}$  $E_{1} = \binom{0}{3} E_{2} = \binom{0}{3} E_{3} = \binom{0}{3}$   $T_{\beta} - \beta' = \binom{0}{3} \binom{0}{3} \binom{0}{3} (T_{\beta} - \beta')^{-1} = \binom{0}{3} \binom{0}{3} \binom{0}{3}$   $X = \binom{-2}{3}$   $X = \binom{-2}{3}$  $\chi = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 0 \\ 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 \\ -2 \\ 1 \end{bmatrix} = \begin{bmatrix} -2 \\ 1 \\ 1 \end{bmatrix}$