Mime skalarim sourin (,) m P° a ordonormalni bari B= (2)(3) a hodam vone mu (x2) (x2) P(AN: Powery Journ 8.49 > $(x_1)_1(y_2)$ = $[(x_1)_1]_B \circ [(x_2)_1] = a_1 \cdot b_1 + a_2 \cdot b_2$ REALIZACE: $(1) + \alpha_2 \begin{pmatrix} 1 \\ 3 \end{pmatrix}$ $(2) + \alpha_1 \begin{pmatrix} 1 \\ 2 \end{pmatrix} \begin{pmatrix} 1 \\ 2 \end{pmatrix}$ 11 (2) 12/42 (1) 12/42 (1) D1= Bny1-1/2 Mounda $=> a_1 = 3x_1 - x_2$ $(\frac{1}{2})(3x_1+x_2)+(\frac{1}{3})(x_2-2x_1)=(\frac{x_1}{x_2})$ Do= 42-241 az= xz-2×1 $3x_1 - x_2 + x_2 - 2x_1 = x_1$ 6×1-2×2+3×2-6×2 = X2 V = 9x1/y1 - 3x1/y2 - 341/y2 + 4x1/y1 - 2x2/y1 - 2x1/y2 =9x1yn-3x1g2-3y1g2+ynx2+4x1y1-2x2y1-2x1y2+22= $=13x_1y_1-5x_1y_2-5x_2y_1+2x_2y_2$

A. Kuljer Wien milet a. W Mame Akalum nouin duny matin A=(aig). Helder bouri B= { On bz} Nakovou Delaum rouin (1) ledy rypada labo: (M, N) = M. A. N = (M, M2) (an an2) (v2) a pustone plate axiom $\langle u_1 v_2 \rangle = \langle v_1 M \rangle$ lak musi by I matrie A symetrish ($a_{12} = a_{21}$) $\langle u_1 M_2 \rangle \langle a_{21} a_{22} \rangle \langle v_2 \rangle = \langle v_1 v_2 \rangle \langle a_{21} a_{22} \rangle \langle M_2 \rangle$ My Ny ay + My Nz az + Mz Nz az + Mz Nz az = My Nz az + Mz Nz az + My Nz az + Mz Nz az 2 M1 N2 a12+12 N3 a21 = M2 N3 a12+ M1 N2 a21 $=(\mu_1 \nu_2 - \nu_1 \mu_2) \cdot (\alpha_1 - \alpha_{21}) = 0 = = \alpha_{21}$ nemun Walis vadyprio Johle bull rule POZOROVANI: II, la negrous holmé vezhletem k \ melod \(\frac{1}{2}\) = (10) \(\alpha_{11} \alpha_{12}\) (0 = (10) $\binom{a_{12}}{a_{22}} - a_{12} \Rightarrow$ prou holme poure poure pour $a_{12} = 0$ $a_{12} = 0$ PLAN: > Pranonitor busi Noume, Dely houringens verlous In = (usd - wind) (1) = (usd - wind) (0) = (wind) a $\overline{A_2} = (asd - rind) \cdot (0) = (-rind) a naylime while d, A. R. A. T. = 0$ POZOROVANI: Ju Jo grow rolme vahleden ke Mardaudnimu stal rolland nebod Ty. T2 = cosd. (-rind) + rind. cosd = 0 => religion mysliched alfor. REALIZACE: (and mind) (and ang) (-mind) = (osd mind) (an (-mind) + ang cosd) = (osd mind) (an (-mind) + ang cosd) = = a41. (-rind) 452 + a12 4052 - a12 rin2 + a22 652 rind = = 012. (cos2 - rin 2) + wood. rind (a22-a11) = a12. cos 2 + rin 2 (a2-a11) = ($=> \alpha_{12} \cos 2\lambda = \frac{\sin 2\lambda}{2} \cdot (\alpha_{11} - \alpha_{22})$

POZOROVAVI: pro Al More is an = azz plasi $\frac{\sin 2\lambda}{\cos 2\lambda} = \frac{2\alpha_{12}}{\alpha_{11} - \alpha_{22}}$ a_{12} , to $2\lambda = 0$ Ay 22 = 2012 605 2 L = 0 22 = curcos 0 21 = andy 2012 L= armos 0 = 450 $L = \frac{2 a_{12}}{2 a_{11} - a_{12}}$ poon & palin pur d=135°, ale puro overem existence son milent 1 shows respect July 2011 7 022 a cos 20 \$0, * Borse &B sely lendinge a prior martine A d. 2. 041 7 a22 roynada gatro $B = \frac{1}{2} \left(\frac{\cos \left(\frac{2u^2}{2u^2} \right)}{2} \right) - \frac{1}{2} \left(\frac{2u^2}{2u^2} \right)$ # ledy ws 2x +0 max. $B = \begin{cases} \sqrt{2} & -\sqrt{2} \\ 2 & \sqrt{2} \\ \sqrt{2} & 2 \end{cases}$ contx-rm x 70 COXIMIX Cosx + -rinx X # 450 X # 1350 ×# X ≠ 225° X ± 315° V = 450+ A.90,