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DIMOSTRA CHE I POLINOMI DI GRADO MINORE O UGVAVE) A 2 A WEF. REALI FORMANO UN SOMOSPAZIO VEMORIALE DI R[x] WSV & SOTOSP (=> XIWI+ XZWZEW YY, YEK YW, WIEW $P(x) = Qx^2 + bx + C$ a,b,c & R P1(x) = Q1 x2+ b1x+C1 a,b, C, ER Q, \$0 a2, b2, C2 E R 0210 P2(X) = Q2 X2+ b2X + C2 A, Az E R $\lambda_1 P_1(x) + \lambda_2 P_2(x) =$ = 1, (Q, x2+ b, x+ C,)+ 12 (Q2X2+ b2X+C2) = 1 Q1X2+ 11b1x+ 11C1+ 1202X+ 12b2x+ 12C2 = (\(\omega_1 + \lambda_2 \omega_2 \) \(\tau + \lambda_1 \omega_2 \) \(\tau + \lambda_1 \omega_2 \) \(\tau + \lambda_1 \omega_2 \) (E R [x] $\lambda_1 a_1 + \lambda_2 a_2 \neq 0$ SEMPLE? CONTROESEMPLO P. (x) = X1+x+2 $P_1(x) = -x^2 + x + 2$ $\lambda_1 = \lambda_2 = 1$ λ,ρ,+λ,ρ2 = ... = */-* +- ... & R,[x] ESTERUZIO 4 V= R5, CONSIDERIAMO WI, WZ SOTIOSPAZI

$$= \begin{cases} x_1 \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} + x_2 \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} + x_3 \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} & \begin{cases} x_1 \\ 0 \\ 0 \end{pmatrix} \end{cases}$$

$$= \begin{cases} \begin{pmatrix} 1 \\ 0 \\ 0 \\ 0 \end{pmatrix} + \begin{pmatrix} 0 \\ 1 \\ 0 \\ 0 \end{pmatrix} & \begin{pmatrix} 0 \\ 1 \\ 0 \\ 0$$