

| | | HOTV N. |
|---|---|--|
| | | енсил |
| | 6.1) 1) Italiar DVS Determinar bases ortonormales de fundamentales Determinar matricas de proyección. | sukaspiros |
| | A) $A = \begin{pmatrix} 3 & 5 \\ -1 & 1 \\ 5 & 3 \end{pmatrix}$ $\longrightarrow rg(A) = 2$ | |
| | Autoploses de AT.A = $\begin{pmatrix} 35 & 29 \\ 29 & 35 \end{pmatrix}$ | |
| • | $\begin{vmatrix} 35 - \times & 29 \\ 29 & 35 - \times \end{vmatrix} =_{5} (35 - \times) (35 - \times) - 29^{2} = 1255$ | |
| | x² - 30× + 38 h = | 0 |
| | | = 6 , x ₂ = 64 |
| | Valores singulares: $\sigma_1 = 8$, $\sigma_2 = \sqrt{6}$ | |
| | Autorspacios de AT. A | |
| | $\$_{\lambda} = 64$) $\left(\begin{array}{ccc} -29 & 29 \\ 29 & -29 \end{array} \right) \longrightarrow - \times 4 + \times 2 = 0 \longrightarrow \times 2$ | E X1 |
| | $\sharp_{\lambda=6} \left(\begin{array}{c} 29 & 29 \\ 29 & 29 \end{array} \right) \rightarrow \times_1 + \times_2 = 0 \longrightarrow -\times_1 =$ | \times_2 ger $\left\{ \begin{pmatrix} -1 \\ 1 \end{pmatrix} \right\}$ |
| | 1 29 29 / | |
| | (1) | -1+1 = 0 V |
| | | z -1/5z z 1/5z |
| | Constructors U: $V_1 = A \cdot V_1 = \begin{pmatrix} 3 & 5 \\ -1 & 1 \\ 5 & 3 \end{pmatrix} \begin{pmatrix} 1/\sqrt{2} \\ 7/\sqrt{2} \end{pmatrix}$ | = 155 |
| | | $\begin{pmatrix} 1/\sqrt{2} \\ 0 \\ 1/\sqrt{2} \end{pmatrix} = \sqrt{1}$ |
| ĺ | NESTA | (1/52/ |

| Bisson = Mero vs: $V_{3} = \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$ A = U.S. V^{7} A = $\begin{pmatrix} 1/\sqrt{2} \\ 1/\sqrt{2} \\ 1/\sqrt{2} \\ 1/\sqrt{2} \end{pmatrix}$ By the control of the second of the | υ ₂ - Δ. ν ₂ σ ₁ | | . (:// | (5) | | | Code Code |
|---|---|------------|--------|----------------------|--------------|-------|---|
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Busca = | maro | V3 : | U3 = | 0 1 0 | | 1 |
| Motorces projection. • P = V_{e} . $V_{e}^{T} = \begin{pmatrix} 1/G & -1/G & 1/G \\ 1/G & 1/G & 1/G \\ 0 & 1/G & 1/G & 1/G \\ 0 & 1/G & 1/G & 1/G \\ 1/G & 1/G & 1/G & 1/G \\ 0 & 1/G & 1/G & 1/G \\ 1/G & 1/G & 1$ | A = U.S. | | | 1752 -17 | J3 0 | | 1-11-1-3 |
| Matrices projection . P = V_{e} . V_{e}^{T} = $\begin{pmatrix} -1/G_{1} & -1/S_{1} \\ -1/S_{2} & -1/S_{2} \end{pmatrix}$ $\begin{pmatrix} 1/F_{2} & 1/S_{2} \\ -1/F_{2} & 1/S_{2} \end{pmatrix}$ $\begin{pmatrix} 1/F_{2} & 1/S_{2} \\ -1/F_{2} & 1/S_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{1} & -1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} & 1/G_{2} \\ -1/G_{2} & 1/G_{2} \end{pmatrix}$ $\begin{pmatrix} 1/G_{2} &$ | | 3 : | A = (| 1/5 1/5 | (8 0) (| 1/52 | - trivo |
| $P_{\text{Nol}(a)} = \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$ | Matrices pro | 1 | | | 1 | 1 0 1 | |
| $P_{Nul}(\rho) = I - P_{f,l}(\rho) = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$ | · Pc. (a) = | Ur. U |), = | 1 52 -75 | s \ 1/rs ' | | 5 1 |
| $P_{N,l}(x,y) = \frac{1}{2} - P_{\varepsilon,l}(x) = \begin{pmatrix} +1 & 2 & 1 \\ 1 & -1 & -2 \\ 1 & -2 & -1 \end{pmatrix} \stackrel{4}{6}$ | · PNulces | = L - | P (A) | = (0 0 | | | -4 2 / |
| | PNJCAT | - 1 - | Pc.(A) | = -1 2 -1 -2 | 1 -2 6 -4) 6 | | |











