$$y = \hat{y} + Z \tag{1}$$

$$\hat{y} = \text{Proj } y = \underbrace{J.u}_{V.U} \quad \frac{1}{U.U} = \underbrace{\begin{bmatrix} F \\ -V \end{bmatrix} \cdot \begin{bmatrix} Y \\ V \end{bmatrix}}_{V.U} = \underbrace{N-Y}_{V-V} = \underbrace{\begin{bmatrix} F \\ -V \end{bmatrix}}_{V-V} = \underbrace{\begin{bmatrix} F \\ -V \end{bmatrix}$$

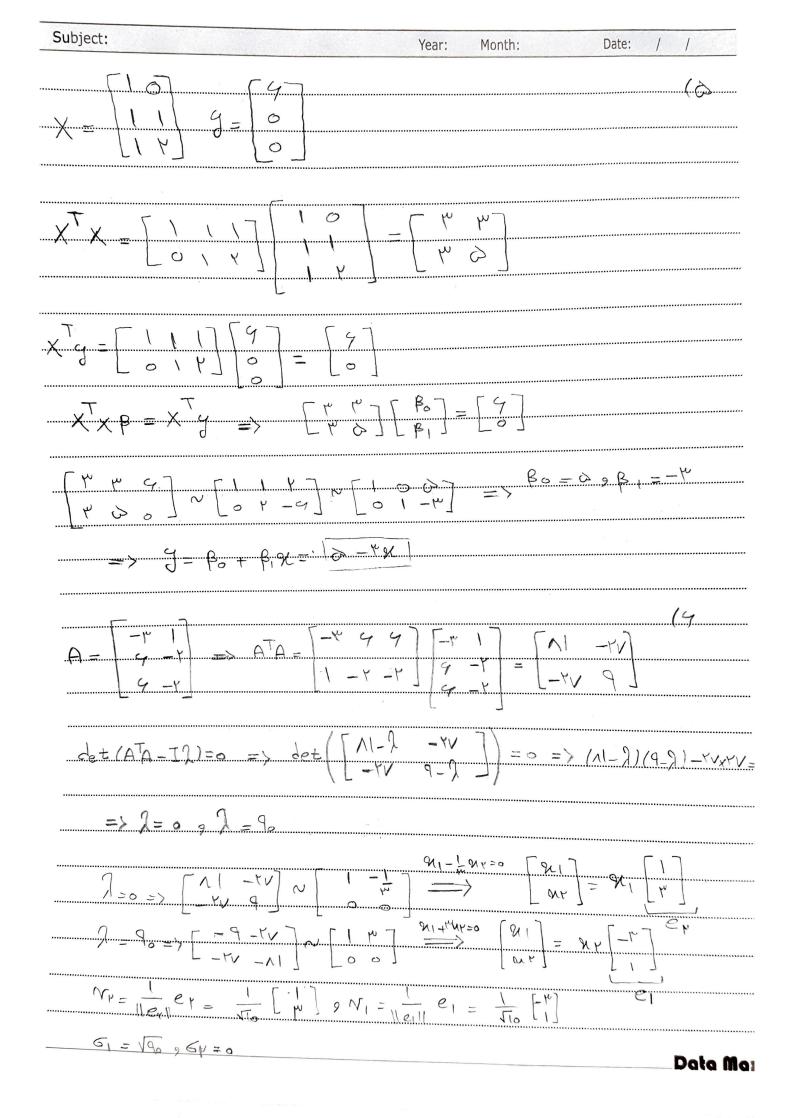
$$Z = y - y = \begin{bmatrix} y \\ y \end{bmatrix} - \begin{bmatrix} \frac{k}{2} \\ \frac{k}{2} \end{bmatrix} = \begin{bmatrix} \frac{k}{2} \\ \frac{k}{2} \end{bmatrix}$$

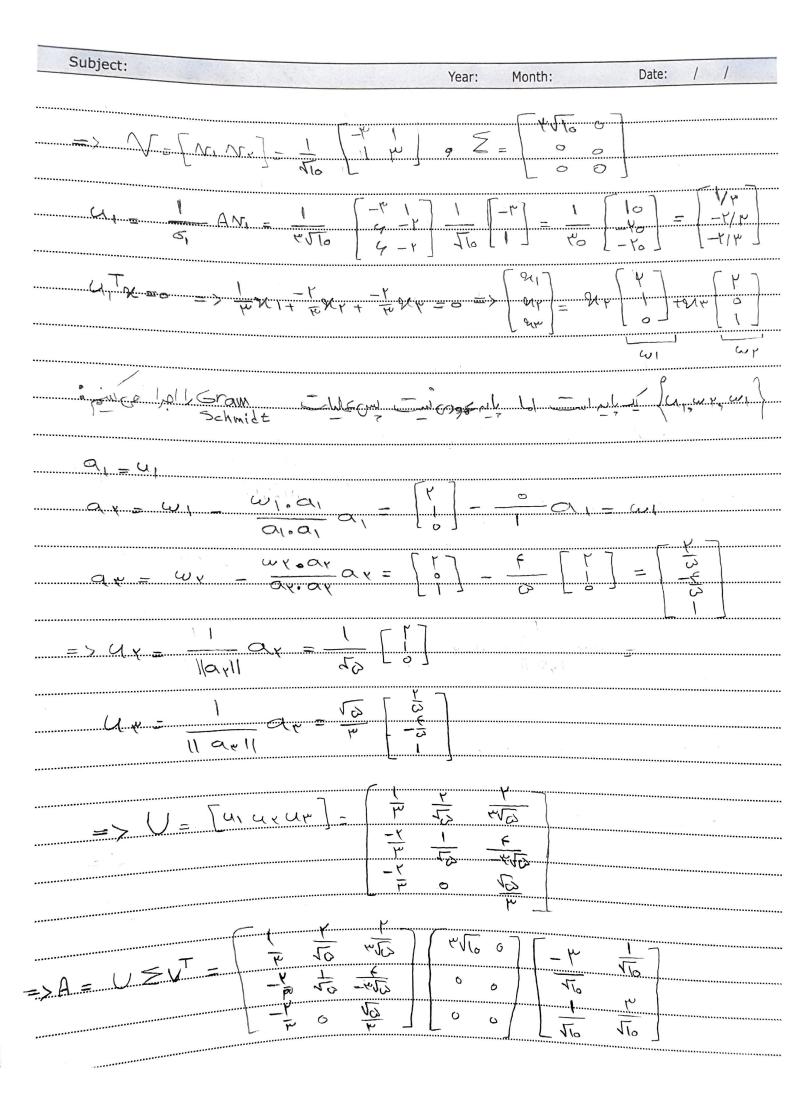
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$$\begin{bmatrix} y_1 \\ y_2 \end{bmatrix} = \begin{bmatrix} -y_2 \\ y_2 \end{bmatrix} = y_1 + \begin{bmatrix} -1 \\ y_2 \end{bmatrix}$$

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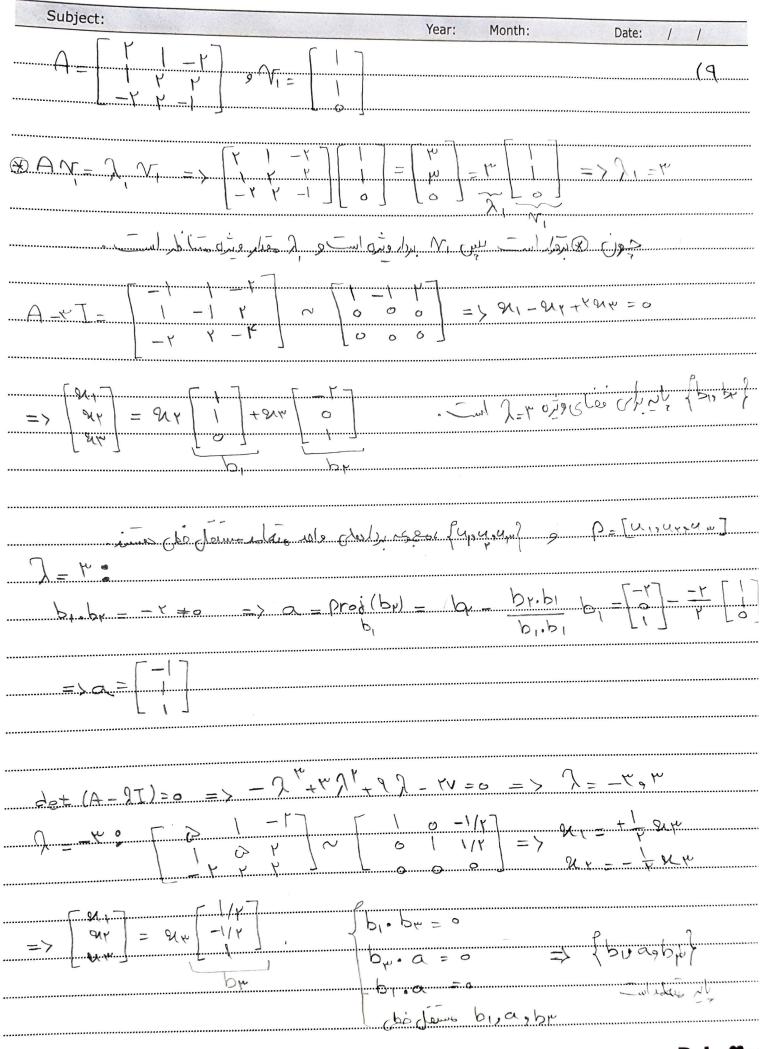
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$ \begin{cases} $	=> a = -19 V
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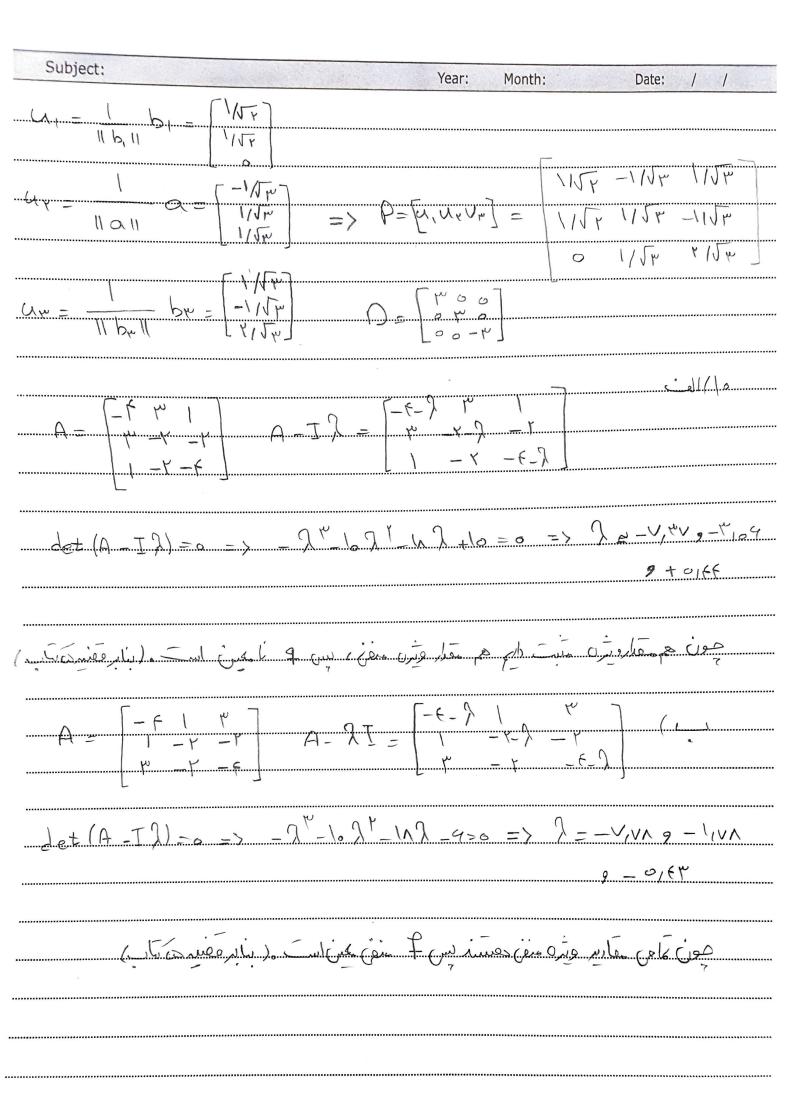


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(V) des cales and conscionation of the Action of the Colorest
$A^{T}A = (\rho \rho \rho^{T})^{T}(\rho \rho \rho^{T}) = \rho \rho^{T}$
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o In ATA che l'incliente de l'entre l'
$\sqrt{-[x, x, \dots, x]} = P Q$ $\sigma = \sqrt{\lambda} = \lambda; = \lambda = DQ$
$U = \begin{bmatrix} u_1 & \cdots & u_n \end{bmatrix} = \frac{1}{\lambda_i} A v_i = \frac{1}{\lambda_i} \lambda_i v_i = \frac{1}{\lambda_i}$ $U = \begin{bmatrix} u_1 & \cdots & u_n \end{bmatrix} = \frac{1}{\lambda_i} A v_i = \frac{1}{\lambda_i} \lambda_i v_i = \frac{1}{\lambda_i}$
$\frac{Q_{i} - \frac{1}{6} A N_{i} - \frac{1}{2} A N_{i} - \frac{1}{2} \frac{\lambda_{i} N_{i} - N_{i}}{\lambda_{i}}}{\frac{1}{6} A N_{i} - \frac{1}{2} \frac{\lambda_{i} N_{i} - N_{i}}{\lambda_{i}}}$
$U_i = V_i = V - [u_1 \cdots u_n] = [v_1 \cdots v_n] - P(w)$
DOD A - US NT = PDPT
س مرم ۱۵ با فرم مطری ازی عربی کی است
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2 A 2 2 - (Ax) = (Ax) = =	$(Ax)^{T} = \chi^{T} A^{T} = A^{T} = A \qquad \chi^{T} A = \chi^{T} A$
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