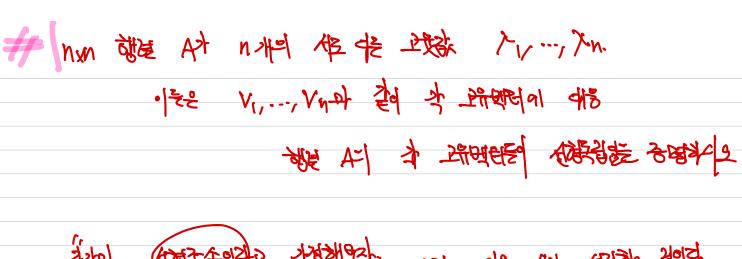
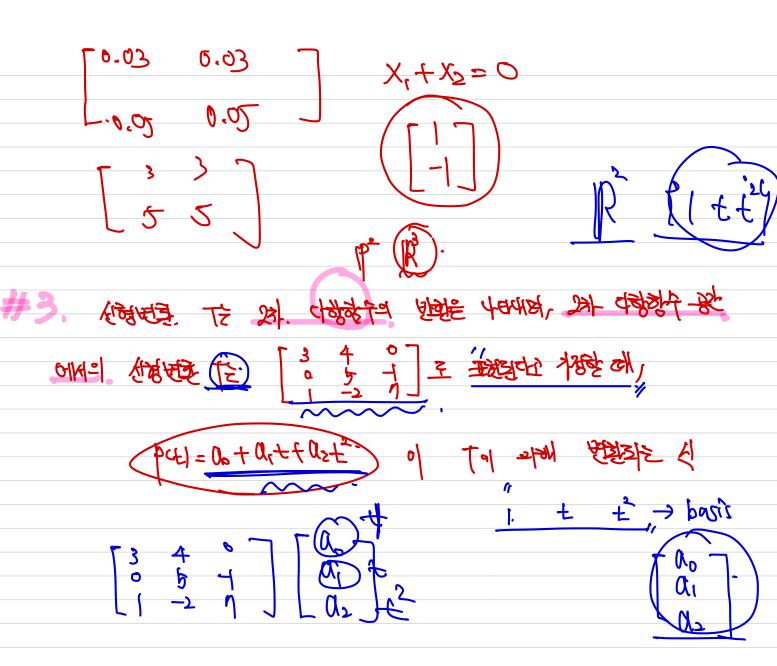


(1/2), (2/6), (3/6) \rightarrow least-squares solution. XTX = [1 2 3] [1 1] = [1449. 14243 14143 14141 $\chi^{\dagger} = \begin{bmatrix} 1 & 3 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} 2 \\ 6 \end{bmatrix}$ = 2+12+18] = [32.]



क्षित्रक निष्ठ के निष्ठ कि भी निष्ठिक भीवार् 201. 能 (V1, --, Vp) (pt1 ... Vn) VpH = GV1+ ---- 7 pt1 / pt1 =- 5 pt1 C N + -- + 1 pt1 Cp / b AVp+1 = C,AV, + --- + CpAVp subtract xb+1/b+1 = c1 x1/1+ -- + cb xb/b + ... + Cp (pg - Ap) vegght = 0 old Az de eigen value. ybH ≠ >! Cl=! = b) (1,..., Cp. = 0

1 5/8 0] [3/8 0] [3/8 5]
5/8 0] [3/8 0] [3/8 5] [3 1] [-1. 0] POPT $\begin{bmatrix} 3 & 1 \\ 5 & 1 \end{bmatrix}\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 912 & 0 \end{bmatrix}\begin{bmatrix} 3 & 1 & 1 \\ 5 & 1 & 1 \end{bmatrix}$



$$\frac{4}{4} U_{1} = \begin{bmatrix} \frac{1}{5} \\ \frac{1}{3} \end{bmatrix}$$

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$$\frac{1}{4} U_{1} = 2 + 10 - 3$$

$$\frac{1}{5} U_{2} = \frac{1}{4} U_{1} U_{1} U_{1} + \frac{1}{4} U_{2} U_{2} U_{2}$$

$$\frac{1}{5} U_{2} = 4 + 2 + 3 = 3$$

$$\frac{1}{5} U_{3} U_{3} = 4 + 4 + 1 = 6$$

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$$\frac{1}{5} U_{3} U_{3}$$

NATIO DENTED ARE SIRELY OFF OFF SOURCE STU, ..., UN)

14. 0 = - C, u, + ... + Cp Up some soulous [4, ..., Cp.

G-o, Similary C,..., Co must be zero

$$5x_1^2 - 4x_1x_2 + 5x_2^2 = 49$$

$$x^{\dagger} \begin{bmatrix} 5 & -2 \\ -2 & 5 \end{bmatrix} X.$$

$$3x_1^2 + 17x_2^2 \qquad X = \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix} Y$$

#6 $Q(x) = 3x_1^2 + 2x_2^2 + x_3^2 + 4x_1x_2 + 4x_2x_3$