east Spurge Meshod 3 Symuc 4 13.21 ric o 97 6.5 10.2 13,1 1.1 4-f(a) - a + bx where -Squore *)* · \_

 $\begin{cases}
\frac{\partial x_{1}}{\partial x_{1}} + 6x_{1} - y_{1} = 0 \\
\frac{\partial x_{1}}{\partial x_{1}} + 6x_{1} - y_{1} = 0
\end{cases}$   $\begin{cases}
\frac{\partial x_{1}}{\partial x_{1}} + 6x_{1} - y_{1} = 0 \\
\frac{\partial x_{1}}{\partial x_{2}} + 6x_{1} - y_{1} = 0
\end{cases}$ 

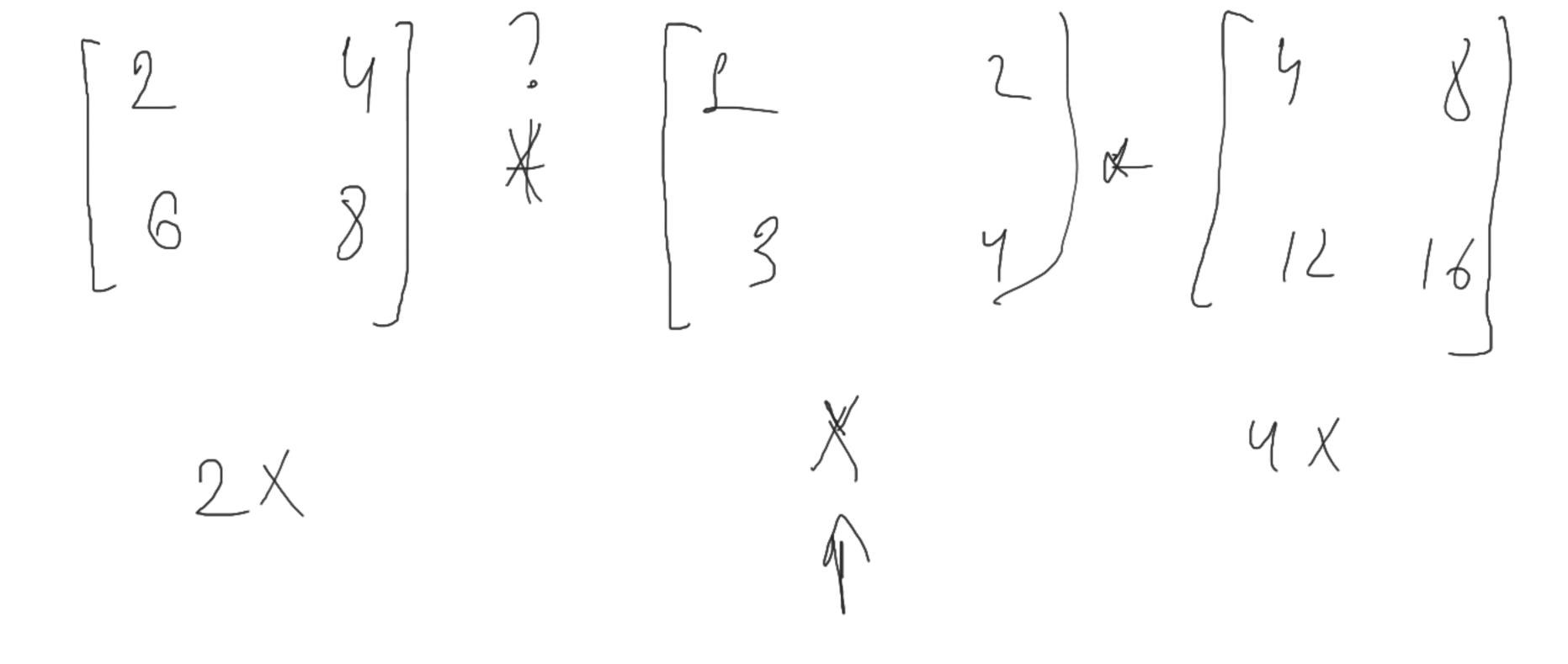
Jpred 1 - Q. X, - 6 9 pred 2 2 Q. Xi - 6 y' y' y' y' y'. 92 93 94 9p

$$\frac{y_1' - 3,04 \cdot 1 + (-2,18)}{y_2 - 3,04 \cdot 2 - 2,18 - 3,9 - 3,8 - 0,1^2}$$

$$\frac{y_3' - 3,04 \cdot 3 - 2,18 - 6,94 - 6,3 - 944^2}{y_4' - 3,04 \cdot 9 - 2,18 - 9,98 - 10,2 - 0,22^2}$$

$$\frac{y_4' - 3,04 \cdot 9 - 2,18 - 13,02 - 13,1 - 0,08^2}{y_5' - 3,04 \cdot 5 - 2,18 - 13,02 - 13,1 - 0,08^2}$$

$$\frac{MSE}{RMSE} = \frac{1}{2} \sum_{RMSE} (y_1' - y_1)^2 - \frac{0,316}{-} = 9,0632$$



12ipe - N.V. eigenalun XM . 1 5.1 cipen ve Chors  $\bigcirc$  3 S ~ (D M.V. - X.V V/M-X ) \_ O M - /- ?= 0

$$\frac{det(M-\lambda \cdot \Gamma) = (7-\lambda) \cdot (5-\lambda) - (3-\lambda) \cdot (5-\lambda) - (3-\lambda) \cdot (5-\lambda) - (3-\lambda) \cdot (7-\lambda) \cdot (5-\lambda) - (3-\lambda) \cdot (5-\lambda) - (3$$

=> 
$$\frac{4}{2} \times \frac{1}{2} \times \frac$$

Simpllor Value Ø

Loust Square Method BUCS Space 1 2 5 4 5 Price 1,1 3,8 6,5 10,2 13,1 ? y = ax, + 6  $E = -\frac{1}{1-1}(y) - y)^2$  i = 112345 6 Spale  $(ax_i + 6) - y_i) = (ax_i + 6)^2 - 2y_i (ax_i + 6) - y_i^2$  $= \langle x_i + 2\alpha x_i + b^2 - 2y_i \alpha x_i - 2y_i + y^2 \rangle \rightarrow min$  QX +LQXi +6 - 24, QX; Oxib) \_ (6/2/2/2/2) -\/\ \var\_\

DX: + BX: - XiYi (x) $x^2 + y_i - \alpha x_i$ (x) $x_i - x_i$ Dixiyi-Xia

~ Ċ L21 

$$y'_{1} = 0.x, +6$$

$$0.=3.04; 6=-2.18$$

$$y'_{1} = 3.04.1 - 2.18 = >0.86 - 1.1 = 0.24$$

$$y'_{2} = 3.04.2 - 2.18 = >3.9 - 3.8 = 0.1$$

$$y'_{3} = 3.04.3 - 2.18 = >6.94 - 6.5 = 0.44$$

$$y'_{1} = 3.04.4 - 2.18 = >9.98 = 10.2 = 0.04$$

$$y'_{2} = 3.04.4 - 2.18 = >9.98 = 10.2 = 0.04$$

$$y'_{3} = 3.04.5 - 2.18 = >13.02 - 13.1 = 0.08$$

$$y'_{3} = 3.04.5 - 2.18 = >13.02 - 13.1 = 0.08$$

$$y'_{3} = 3.04.5 - 2.18 = >13.02 - 13.1 = 0.08$$

$$y'_{3} = 3.04.5 - 2.18 = >13.02 - 13.1 = 0.08$$

$$\chi_6 = 6.3,04 - 2,18 -$$

l'igenvalue / Eigenvector

Eigenvallies? Ejelnvectors -) M.V-> ~ V = 0  $M \cdot V = \lambda \cdot V$   $eigenvolug V(M - \lambda) = 0$   $eigenvolug V(M - \lambda \cdot I) = 0$ 68- 4-7 2 -2 -2 -2 -3-x -2 -3-x -3-x -3-x -3-x