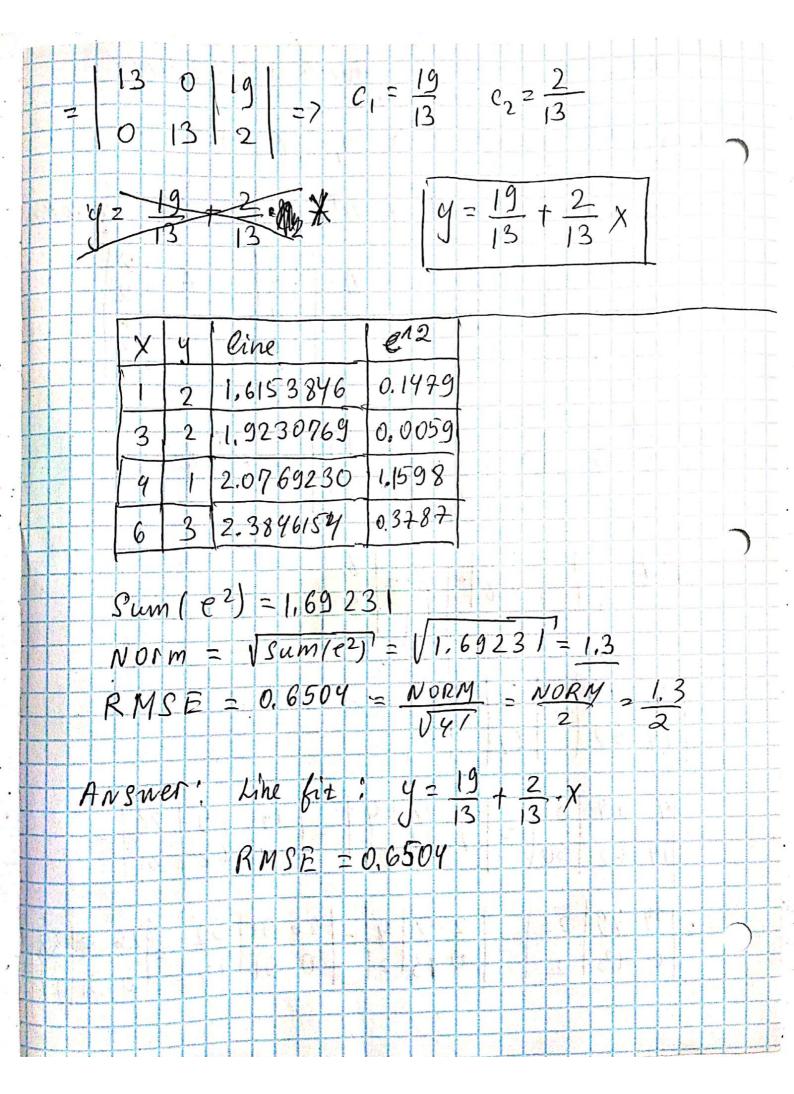


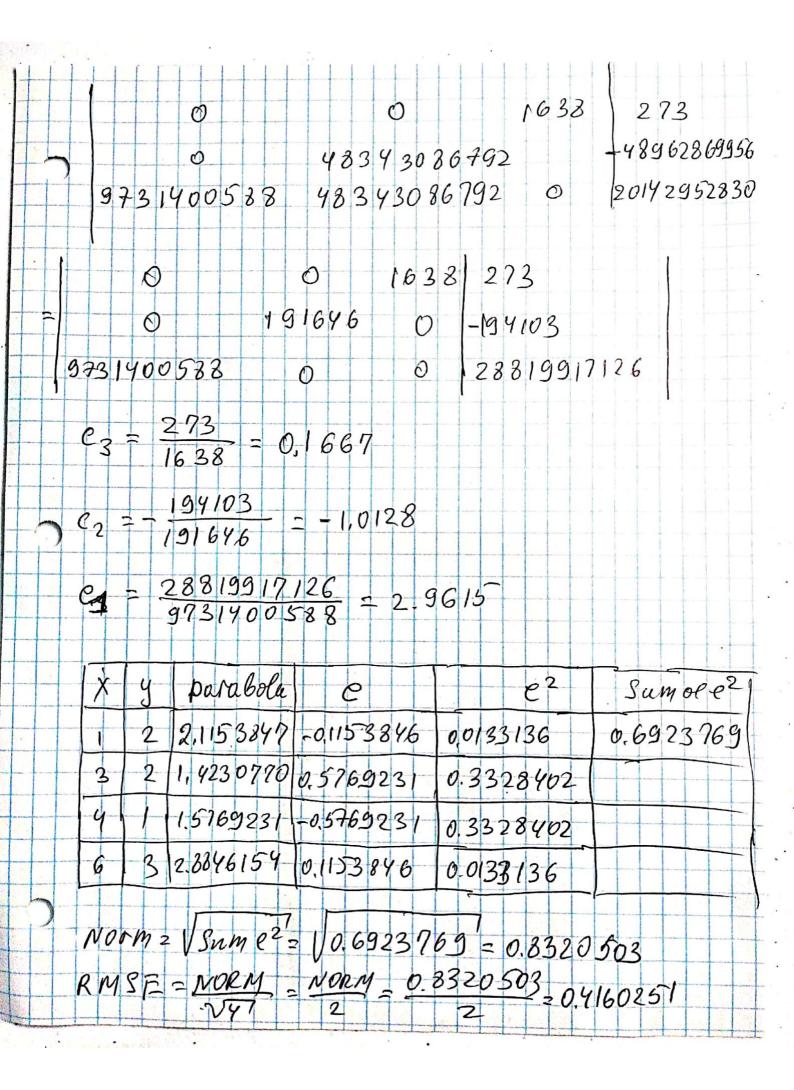
$e^{2} = \frac{1}{19} \qquad Sum(e^{2}) = \frac{4}{19} + \frac{9}{19} + \frac{7}{19} = \frac{11}{19} = \frac{2}{7}$ $Nor m = \sqrt{Sum(e^{2})} = \sqrt{\frac{2}{7}} = \frac{1}{7}$ $Roc m = \sqrt{\frac{2}{7}} = 0.5345$			$ \begin{array}{c c} e^{2} & Sam(e^{2})^{2} \\ \hline & 9 \\ \hline & 9 \\ \hline & Norm = 1 \end{array} $ $ \begin{array}{c c} A NSWer : \hat{X} = E - \frac{1}{7} \end{array} $
Sam(e ²) = $\frac{7}{79}$ $\frac{7}$			$ \begin{array}{c c} e^{z} - \frac{9}{49} & Sam(e^{z})^{z} \\ \hline Norm = 1 \\ \hline ANSWer : \hat{X} = \Gamma - \frac{1}{7} \end{array} $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			$ \begin{array}{c c} e^{2} & Sum(e^{2})^{2} \\ \hline & 9 \\ \hline & 9 \\ \hline & Norm = 1 \end{array} $ $ ANSWER : \hat{X} = \begin{bmatrix} -\frac{1}{7} \\ -\frac{1}{7} \end{bmatrix} $
Sam(e ²) = $\frac{7}{79}$ + $\frac{7}{79}$ + $\frac{7}{79}$ = $\frac{7}$			$\begin{array}{c c} \hline & g & Sum(e^2) = \\ \hline & yg & Norm = 1 \\ \hline & yg & \\ \hline & Nswer : \hat{x} = E - \frac{1}{7} \end{array}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{array}{c c} z & Sum(e^2) z \\ \hline yg & Norm = 1 \\ \hline yg & \\ \hline \end{array}$ $1 \leq wer : \hat{x} = \hat{L} - \frac{1}{7}$
$\frac{9}{49} \left \begin{array}{c} Sam(e^2) = \frac{7}{49} + \frac{7}{49} + \frac{7}{49} + \frac{7}{49} = \frac{7}{45} = \frac{2}{7} \\ \hline 99 \left \begin{array}{c} Norm = \sqrt{3}m(e^2) = \sqrt{2} \\ \hline \end{array} \right = \sqrt{\frac{2}{7}} = \frac{21}{7} \\ \hline Norm = \sqrt{\frac{2}{7}} = 0.5345 \\ \hline \end{array} \right $			$\begin{array}{c c} Sum(e^2)^2 \\ \hline 99 \\ \hline Norm = 1 \end{array}$ weo : $\hat{x} = \begin{bmatrix} -\frac{1}{7} \\ \hline \end{array}$
$\frac{3}{9} Sam(e^{2}) = \frac{7}{79} + \frac{3}{79} + \frac{17}{79} = \frac{27}{7} = \frac{17}{7} = \frac{27}{7} = \frac{17}{7} = \frac{27}{7} = \frac{10}{7} = \frac{10}{7} = \frac{21}{7} = \frac{10}{7} = \frac{21}{7} = \frac{10}{7} = \frac{21}{7} = \frac{21}{7$			$\begin{array}{c c} Sam(e^2)^2 \\ \hline 89 \\ \hline Norm = 1 \end{array}$ $er : \hat{x} = E - \frac{1}{7}$
$Sam(e^{2}) = \frac{7}{19} + \frac{3}{19} + \frac{7}{15} = \frac{17}{7}$ $Norm = Sam(e^{2}) = \sqrt{\frac{2}{7}} = \frac{2}{7}$ $Sam(e^{2}) = \frac{2}{7}$ $Norm = \sqrt{\frac{2}{7}} = 0.5345$		Nosm =	$Sam(e^2) = 1$ $Norm = 1$ $\hat{x} = \Gamma - \frac{1}{7}$
$Nor m = \sqrt{Scm/e^2} = \sqrt{\frac{2}{7}} = \sqrt{\frac{2}{7}} = \sqrt{\frac{10}{7}} = \sqrt{\frac{10}{7$		Norm =	$Norm = \sqrt{2}$ $\hat{x} = \left[-\frac{1}{7} \right]$
$Nor m = Scm/e^2 = \frac{2}{7} $ $Scim(e^2) = \frac{21}{7}$ $Nor m = \frac{2}{7} ^2 = 0.5345$		Nocm = ($Norm = \sqrt{2}$ $\hat{X} = \left[-\frac{1}{7} \right]$
Norm = $\sqrt{scm(e^2)} = \sqrt{\frac{2}{7}} =$ $\hat{x} = \left[-\frac{1}{7}, \frac{10}{7} \right]$ $Scin(e^2) = \frac{21}{7}$ $Norm = \sqrt{\frac{2}{7}} = 0.5345$		Nocm = ($Norm = \sqrt{2}$ $\hat{X} = \begin{bmatrix} -\frac{1}{7} \\ 7 \end{bmatrix}$
$ \operatorname{orm} = \sqrt{\operatorname{scm}(e^2)} _{=}^{2} \sqrt{\frac{2}{7}} =$ $ \operatorname{cm}(e^2) _{=}^{2} \sqrt{\frac{2}{7}} = 0.5345$ $ \operatorname{cm}(e^2) _{=}^{2} \sqrt{\frac{2}{7}} = 0.5345$		Voc.m =	$\hat{x} = \begin{bmatrix} -\frac{1}{7} \end{bmatrix}$
$cm = \sqrt{3cm(e^2)} = \sqrt{\frac{2}{7}} =$ $= \left[-\frac{1}{7}, \frac{10}{7} \right]$ $cm = \sqrt{\frac{2}{7}} = 0.5345$		06 m =	$rm = \sqrt{2}$ $= \left[-\frac{1}{7} \right]$
$m = \sqrt{Sem(e^2)} = \sqrt{\frac{2}{7}} $		m = ($n = \sqrt{2}$ $\sum_{i=1}^{n} \frac{1}{7}$
$ = \sqrt{3} \cdot (e^{2}) = \sqrt{\frac{2}{7}} = \frac{1}{7} = \frac$			- 7
$ \frac{1}{7}, \frac{10}{7}, 10$	おおしては、日本のでは、これでは、これではなくとなっているとはなっているとはないというできないというできないできないできないできないできないできないできないできないできないとなっているというできないと		7
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$\frac{10}{7}$ = 0.53.45	1	27	m 2
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		5	TWNA Pection 4.1 , (3,2), (4,1),	WILLIAMS
	y = C1:) (1,2) HC2 t	$(3,2), (4,1),$ $A^{T}A = A^{T}B$	-> normal equation
	1 2 ×	agency of the second se		1 6 2 2 1 1 3
	1 1 1		1	ATA
	A 7 6 = 1	1346	112118	
		1 3 4 6	3 30	
	19 62	X	= 30	14 49 28 2
	14 62	30	7 31 115	14 62 30 =
and the contract of the contra	19 49	28 = 1	2 7 4 = 21 0 03 2 = 0	



Section 4. (96) (1,2), $(3,2)$, $(4,1)$, $(6,3)$ $y=c,+c_2t+c_3t^2$ $A=\begin{bmatrix}1&1&1&1&1&1&1&1&1&1&1&1&1&1&1&1&1&1&1&$	
$A^{7}A = \begin{bmatrix} 1 & 3 & 4 & 6 \\ 1 & 3 & 4 & 6 \\ 1 & 9 & 16 & 36 \end{bmatrix} \begin{bmatrix} 1 & 1 & 1 & 4 & 14 & 62 \\ 1 & 4 & 14 & 62 & 308 \\ 1 & 4 & 16 & 36 \end{bmatrix} \begin{bmatrix} 1 & 4 & 14 & 62 \\ 1 & 4 & 14 & 62 & 308 \\ 1 & 6 & 3 & 6 & 62 & 308 \end{bmatrix}$	
AT.6= 13 4 6 x 2 - 8 30 144 1 1 1 1 1 1 1 1	
Normal equation 14 14 62 C, 8 14 62 308 X C2 = 30 62 308 1634 C3 144 2 7 31 4 14 49 217 28 7 31 154 15 2 308 30 3 154 317 72 31 154 817 72	

0 -13 -91 -2 10 -13 -91 -2
7 31 154 15 = 217 961 4774 465 =
31 154 317 72 217 1018 5719 504
0 -13 -91 -2 0 -1521 -10647 -234
= 0 -117 -945 -39 = 0 1521 12285 507 =
31 154 817 72 31 154 817 72
0 0 1638 273 0 0 1547910 257985
2 0 117 945 39 7 0 191646 1547910 63882 2 154 817 72 31 154 817 72
31 15 9 0 1 1 1
= 0 1638 273 0 0 1338246 = 0 191646 0 -194103 = 0 191646 0
31 154 817 72 50778 252252 1338246
1-224 1 0 0 1638 273
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
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0 1638
191646
9731900888 0 0



AN	84.05	Parab	of u		
				272 2	
y	973	400538	191646	$* + \frac{273}{1638} \times^2$	
06	1 42 2	9615 - 1.0	128-X+0	1667.X2	
	7				
		= 0,4160			
	Norm =	0,8321			
7					
	KMSE	for po	sabola	= 0,4160 <	
	RMS 12	for le	ne	+ 0.6509	
	there for	e pora	bola is	= 0.6504 better fit	
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