









9. 207. y = axi+bxi+6+ni => ni = yi-axi-bxi-c. $\frac{1}{\sqrt{2\pi\sigma^2}} \exp \frac{-n_i^2}{2\sigma^2} = \frac{1}{\sqrt{2\pi\sigma^2}} \exp \frac{-n_i^2}{2} = \frac{1}{\sqrt{2\pi\sigma^2}} \exp \frac{-(y_i^2 a x_i^2 - b x_i^2)}{2}$:, a*,b*, (*= arg max T] _ exp - (yi-axi-bxi-c) = arg mox $\frac{1}{12\pi}$ exp $\frac{\sum_{i=1}^{100} \left[-(y_i - ax_i^2 - bx_i - c)\right]}{2}$ = argmin \(\(\frac{1}{y_i} - ax_i - bx_i - c \) , let \(\frac{1}{x_i} - bx_i - c \) \(\frac{1}{x_i} - bx_i - c \) \(\frac{1}{x_i} - bx_i - c \) # = = 2 (y; -axi - bx; -c) · (-xi) = = = = [(y; -axi - bx; -c) xi] = = $= \sum_{i=1}^{\infty} x_i^2 y_i - a \sum_{i=1}^{\infty} x_i^2 - b \sum_{i=1}^{\infty} x_i^2 - c \sum_{i=1}^{\infty} x_i^2 = 0.$ $= \sum_{i=1}^{\infty} x_i^2 y_i - a \sum_{i=1}^{\infty} x_i^2 - b \sum_{i=1}^{\infty} (y_i - a x_i^2 - b x_i - c)(x_i) = 0$ $= \sum_{i=1}^{\infty} (y_i - a x_i^2 - b x_i^2 - c)(-x_i) = 0$ => $\frac{100}{2} \times i y_i - \alpha = \frac{100}{2} \times i - \alpha$ => Z yi - a Z xi - b Z xi - 100 c = 0 3. a = 1/18/200 J1 K3 L4 - J, K4L3 - J312, L4 + J3 K4L, + J4 K, L3 = J2K3L4-J2K4L3-J3K2L4+J3K4L2+J41223-J4K3L2 b= Jikzlq-Jikqlz-Jzkilq+Jzkqli+J4kilz-J4kzli Jzkslq-Jzkql3-J3kzlq+J3kqlz+J4kzl3-J4k3lz J1K2L3-J1K3L2-J2K1L3+J2K3L1+J3K4L2-J3K2L1 C= J2K3L4-J2K4L3-J3K2L4+J3K4L2+J4K2L3-J4K3L2.

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-	Above can be done by Marlab code. (see attachment).
	$= \frac{6 = 0.012}{6 = 3.128}$ $= \frac{3.128}{3.129}$ $= \frac{3.128}{3.129}$ $= \frac{3.128}{3.129}$ $= \frac{3.128}{3.129}$ $= \frac{3.128}{3.129}$ $= \frac{3.128}{3.129}$
	$\frac{b=3.129}{c=-42.355}$ $\frac{y_i=0.512x_i^2+3.129x_i^2-42.355+n_i}{c=-42.355}$
	657. Ni~ 2-2
	$a^*, b^*, c^* = \underset{i=1}{\operatorname{arg max}} \frac{1}{1!} e^{-(y_i - ax_i^2 - bx_i - c)}$
	α, b, c
	=
(S.M.) S. S.	
- Carrier To	let objective function: min $f = \min\left(-\frac{\sum_{i=1}^{100} \chi_i^2}{\tilde{i}}\right)a - \left(\frac{\sum_{i=1}^{100} \chi_i^2}{\tilde{i}}\right)b - 100C$
	Subject to: yi-axi-bxi-czo
	=> *ia+ xib+c = yi
	since Matlab take "min" as objective and "=" as constraint,
	by applying linear programing in Matlab:
	(a = 0,011 }
	b=3.1734 c=-153.6072.
	C = 157.0012.
	See attached Matlab code and figures.
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