	Tuberial - 2.
	Maximum dikelihood equation.  Inplatizure) = y lne - E E (y (znow)-tn)-141  - E
Cequ	tentil Marinizing the above O equ.
	$\frac{-\beta}{\beta} \neq \sum_{n=1}^{\infty} \left( y(x_n, \omega) - t_n \right) \times d y(x_n, \omega) = 0$ $= \sum_{n=1}^{\infty} \left( y(x_n, \omega) - t_n \right) = 0  d y(x_n, \omega) = 0$ $= \sum_{n=1}^{\infty} \left( y(x_n, \omega) - t_n \right) = 0  d y(x_n, \omega) = 0$
	det y = w, x + wo> (2 1,9); (3,3,2)
	September of in (4)
	= ) $(\omega_1 \times 1 + \omega_3 - 1 - 2)$ + $(\omega_1 \times 2 + \omega_3 - 1 - 9)$ + $(\omega_1 \times 3 + \omega_3 - 8)$ $6\omega_1 + 3\omega_3 - (1 - 2 + 1 - 9 + 3 - 2) = 0$ $6\omega_1 + 3\omega_3 = 6 - 3$ $2\omega_1 + \omega_3 = 2 - 1 - 2\omega_3 = 2 - 1 - 2\omega_3$
	6

When Differenciation can (1) with sexpect to 
$$\beta$$
 $N = \frac{1}{2} \sum_{n=1}^{N} (y(x_n, \omega) - t_n)^2$ .

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 $\frac{1}{3} = \frac{$ 

fox co = \$ -0-51 FOX 601= 2021 y=0.2/x +2.6x. y=2.212 -2.32. FOO X1=1 1=2-42 Fox \$ = 1 \ \( \frac{1}{5} = 0 - 1 \\

\[ \alpha 2 - 2 \\

\[ \alpha 3 - 3 \\

\] \[ \alpha 3 - 3 \\

\] \[ \alpha 3 - 3 \\

\] x2=2 y2=2-21 x3=) 43=2000 (D) = 2.21/ ENG/ 8=12,201. =2-1-4-42. wo = -2-32/ segd equation - y = 2.21x - 2.32.