Coding GREEK unknown
("It is Greek to me ...")

LATIN choice

LATIN fact

Start with

x., y,

x2, y2

i=1 ... N

JN, YN

BELIEVE

y: = d + & x: + 6:

LOOK FOR

y: = a + b x: + e:

what do we want e, -- en to do?

$$C_i = y_i - (a+b \times i)$$

OLS ca 1802

$$\frac{2 \sum_{i=1}^{\infty} e_{i}^{2}}{2a} = \frac{2 \sum_{i=1}^{\infty} e_{i}^{2}}{2b} = 0$$

Z e: =0

Z tie = 0

"LS normal eguations

 $\frac{1}{N} \geq e_i = \frac{1}{N}.0$

= 0

LS forces e >0

LS is complicated mean

(4>

LAD normal eguations

[1955] MAT describe general

idea d weighted Ls

 $\sum_{i=1}^{\infty} w_{i} e_{i} = 0$ $\sum_{i=1}^{\infty} w_{i} \times e_{i} = 0$ $w_{i} = \sum_{i=1}^{\infty} |e_{i}| e_{i} = 0$ $e_{i} = 0$

Appeal to trichotomy

 $e_i \gamma o$, $e_i < o$, $e_i = o$

 $\ell_i 70$: Willie = $\frac{1}{100}$ ei = $\frac{\ell_i}{\ell_i}$ = 1

 $e_i \times 0$: $w_i e_i = \frac{1}{1e_i l} = \frac{e_i}{-e_i} = -1$

e,=0: wili= 1.0 = 0

.. As many +1, as -1 since Twice=

i. Dir a median of Wili

Since Wi 70 O is a median of le MD