" β. ζε. \ + ζε. \ -
$= \left(\left(\sum_{i=1}^{n} x_{i}, \beta_{i} \right)^{2} + 2 \sum_{i=1}^{n} x_{i}, \beta_{i} \in \mathcal{E}_{i} + \mathcal{E}_{i}^{2} \right) - \left(\sum_{i=1}^{n} x_{i}, \beta_{i} + \mathcal{E}_{i}^{2} \right) \right) - \left(\sum_{i=1}^{n} x_{i}, \beta_{i} + \mathcal{E}_{i}^{2} \right) $
(\sum_{i} \times_{i} \begin{pmatrix} \(\sum_{i} \times_{i} \begin{pmatrix} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
We know a that $y_i = \sum x_i j_i + \epsilon_i$
\ \ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
+ 2 < x; X < x; \
= (y: °) - (y:) < 2 y:) + (y:) -
in data (Y:) is "away" from mean (IE(Y:)). In manber
0.2) Show Vac(y) = 32
As for the second term (E) we have assumed
aning the content is a scalar itself. and the expected value
linearity, we have $\langle \Sigma \times : \beta_{\delta} \rangle + \langle \varepsilon \rangle$
$\mathbb{E}\left(Y_{:}\right) = \left\langle Y_{:} \right\rangle = \left\langle \sum_{\delta} X_{:\delta} \beta_{\delta} + \mathcal{E}_{i} \right\rangle$
0.1) Show IE (γ:) = Σ, x: β; = X:, β
X X X X X X X X X X
This describes our data
and normal distr. of orbox En N(0, 02)
Project 1