Sagara 1 Cuenyenne nonconaumuoro amopumua $x \in \mathbb{R}^d$, $xi \in \mathbb{U}[0,1]$, i=1,2,...,d., $x=(xi,yi)_{i=1}^N$ $E[y|x] = x^{\dagger}x$, a(x) = const $Q = \frac{1}{N} \sum_{i=1}^N (yi - a)^2 = \frac{1}{N} \sum_{i=1}^N (yi - const)^2 \longrightarrow \min_{const}$ $a(x) = const = \sum_{i=1}^{n} y_i$ p(n) = {1, n+[0,1] 0, n+[0,1] $E(x) = \int_{0}^{\infty} x \cdot 1 \cdot dx = \frac{x^{2}}{2} \left| \frac{1}{2} \right|^{2}$ $\mathcal{D}(x) = \sqrt[4]{(x-\frac{1}{2})^2} dx = \left(\frac{x^3}{3} - \frac{x^2}{2} + \frac{x}{4}\right) \Big|_0^1 = \frac{1}{12}$ Bias = (E(y) - E(a)) = que equoro observa E[y|x] = xtx = Z xj $E[a] = E\left[\frac{\sum_{i=1}^{N} y_{i}}{N}\right] = \frac{\sum_{i=1}^{N} E[y_{i}]}{N} = E\left[\frac{\sum_{i=1}^{N} x_{i}^{*}}{N}\right] = \frac{\alpha}{N} E(x_{i}^{*}) = \frac{\alpha}{N}$ $= \sum_{j=1}^{d} (\mathcal{D}(x_{j}) + (\mathcal{D}(x_{j}))^{2}) = \sum_{j=1}^{d} (\frac{1}{12} + \frac{1}{4}) = \sum_{j=1}^{d} \frac{1}{3} =$ Bias $(x) = (\sum_{j=1}^{d} x_{j}^{2} - \frac{1}{3})^{\frac{1}{2}}$ Дия нахождения стещения всего аторична, небоходино усреднить: Bias = $(E(2,7)^{2}) - \frac{d}{3})^{2} = (\frac{d}{4} - \frac{d}{3})^{2} = \frac{d^{2}}{144}$ Ombem: Bias = de