Trongunes Aveniang 505-003 I Commonn 1 jagare а) Эненонедианьное гонейство постределений, у неторых плетность: p(x10) = = (0) h(x) exp(0'u(x)) Cuemuremune T(x) regularemor gocummorner ampelemerone hopemenge & cem p(x17(x)=t, 0) = p(x17(x)=t) 8) X, Xn-403 y N(m, 52) p(x(0) = (2082)= exp(-(x,-m/2)--exp(-(xu-m/2)= = $(\frac{1}{2\pi6^2})^{\frac{1}{2}} exp(-\frac{2}{4\pi^2} + \frac{m}{4\pi^2} + \frac{m}{4\pi^2}) = \frac{1}{2(0)}h(x)exp(\theta u(x))$ 0=(m; -1/202), u=(2x; 2/x2) Demember con emember (x)= 6) ε ~ N(m,σ2), p(x) = Z(θ) h(x) exp(θ'u(x)), Z(θ) = J-π/θ2 (4θ2) u, (x) = x, u2(x) = x2 - e reagons [a u = VV log 2(0) => (u = D 12 = D = 102 - 103 = 254 + 4m202 => D22 = 254 + 4m262 2 jugare p(4, w/x) = p(w)p(4/x, w) p(4Test Xtest, Xtrain, 4train) = Sp(4test, W/ Xtest, X train, Ytrain) dw = Splytest (+ 1 Xtest, Xtrain, Ytrain). p[w|Xtest, Xtrain, Ytrain)dw = Sp(Ytest) W, Xtest) elle u men greatu o p(u/Xtrain, Ytrain)dw X test re unem cupiera de 4 test

3ergare 3 n = 10, $n_1 = 10000$ k = 2 $k_2 = 5100$ a) $q(p_1) = q(p_2) \sim N(0, 5, 0, 1^2)$ tha only give [0, 1]we right yierby analysis $[0, 1] \sim [1 - p_2] \sim [1 - p_2] \sim [1 - p_2]$