3AKOU PACUP. CNY4. Bell44. 6.  $\frac{\left(\frac{x}{e}\right)^{2}}{\left(\frac{x}{e}\right)} = \frac{x}{2}$  $\mathcal{X} < \mathcal{O}$ TAC NAPAMERP 6>0 040449: 44 9 Acn61 n=3136150pke 70  $\Theta_{i} = \overline{\lambda}$  $\partial_2 = \chi_{(2)}$ a) Mpobepar6 up helmen. u ucupab b) Bb/8BUTB BONEE 7PPENT. OGEHHY () UCCNEBOBATH OGENUG NA ZPERT c nomolyblo hep-BA KPAMEPA-PAO PACCMOTPUM Bi: (\*) he3ABUC, UMENOT 40 xe pacup, 48048 OGENUU 7 PPEKTUBHOCTU
(Be3 NEP-13A KPAMEPA-PAO) CPABNUM AUCHEPEUN COOTB. OGENON: D[0,]= D[1/2/2]= 1.nDe= 0

$$\begin{array}{lll} npu & n = 3 \iff D[\vec{O},\vec{J}] = \frac{\vec{O}^2}{3^2} \\ P_{ACC MOTPAM} & \vec{O}_2 : \\ a) & \varphi(\vec{J}) = n \stackrel{d}{\bullet} \cdot C_{n-1} \left(1 - \left(1 - e \times \rho\left(-\frac{\kappa}{O}\right)\right) - \times \\ \times & (1 - e \times \rho\left(-\frac{\kappa}{O}\right)\right) = \\ & = \frac{n(n-1)}{O} \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) \\ & = \frac{n(n-1)}{O} \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) \\ \times & \times \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}\right)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) dy = \frac{n(n-1)}{O} \times \\ \times & \left(e \times \rho\left(-\frac{\sigma}{O}(n-1)\right) - e \times$$

Bresem 
$$\hat{\partial}_{2}^{1} - ucnpassensym:$$
 $\hat{\partial}_{2}^{1} = \frac{n(n-1)}{2n-1} \cdot \hat{\partial}_{2} = \frac{n(n-1)}{2n-1} \cdot \chi_{(2)}$ 

b)

 $M[\hat{\partial}_{2}] = \int_{0}^{1} \frac{n(n-1)}{0} y^{2} \left(e^{-\frac{\pi}{2}(n-1)} - e^{-\frac{\pi}{2}n}\right) dy =$ 
 $= \begin{cases} 3A \text{ Menh.}; \\ t = \frac{\pi}{2}n \end{cases} = O^{2} \left(\frac{n}{n^{2}-n} \int_{0}^{1} e^{-\frac{\pi}{2}(n-1)} - e^{-\frac{\pi}{2}n}\right) dy =$ 
 $= 2O^{2} \left(\frac{n^{3}-(n-1)^{3}}{n^{2}(n-1)^{2}}\right) = 2O^{2} \left(\frac{3n^{2}-3n+1}{n^{2}(n-1)^{2}}\right)$ 
 $4 \cdot 0.$ 
 $D[\hat{\partial}_{2}] = O^{2} \left(\frac{2n^{2}-2n+1}{n^{2}(n-1)^{2}}\right)$ 
 $4 \cdot D[\hat{\partial}_{2}] = O^{2} \left(\frac{2n^{2}-2n+1}{n^{2}(n-1)^{2}}\right)$ 
 $4 \cdot D[\hat{\partial}_{2}^{2}] = \frac{n^{2}(n-1)^{2}}{(2n-1)^{2}}D[\hat{\partial}_{2}] = O^{2} \left(\frac{2n^{2}-2n+1}{(n^{2}-n)^{2}}\right)$ 
 $D[\hat{\partial}_{2}^{2}] = O[\hat{\partial}_{2}^{2}] = O[\hat{\partial}_{2}$ 

onp peryasipaocto MBM Bep. Morello G~ p(1,0), O = B < R, x = A hA361B. Peryuaphoù, ec14 1) p(n,t) - n. B. no 8 44 B (p(n,0), P, (0) - 404p. R4PP.) 2)  $\frac{\partial}{\partial \theta} \int g(x,\theta) dx = \int \frac{\partial}{\partial \theta} g(x,\theta) dx \text{ mA } \int \frac{\partial}{\partial \theta} g(x,\theta) dx$ (1) p(n) - neup. Aupp. no B nA (0;+ ~)
(040BUANO) (2)  $\frac{\partial}{\partial \theta} \left( \int_{0}^{+\infty} \frac{1}{\theta} \exp\left(-\frac{x}{\theta}\right) dx \right) = \frac{\partial}{\partial \theta} 1 = 0$  $\int \left(\frac{1}{\theta} \exp\left(-\frac{\lambda}{\theta}\right) - \frac{1}{\theta} \exp\left(-\frac{\lambda}{\theta}\right)\right) dx = \frac{1}{\theta} + 0 - \frac{1}{\theta} = 0$ PABCUCTBO CO5110 BACTUS  $\left(n\left(\frac{1}{8}exp\left(-\frac{h}{6}\right)\right)=-\frac{h}{6}-\ln\theta\right)$ 

 $x = \frac{1}{\theta} exp(-\frac{n}{\theta})dn = \frac{1}{\theta^2} \left( \int_0^{\frac{\pi}{2}} t^2 e^{-t} dt - z \int_0^{\frac{\pi}{2}} te^{-t} dt + \frac{1}{\theta^2} \int_0^{\frac{\pi}{2}} t^2 e^{-t} dt \right)$  $+\int_{0}^{2}e^{-t}dt = \frac{1}{\theta^{2}}(2-2+1) = \frac{1}{\theta^{2}} - \frac{nenp.7_{HA}}{500}$ -5 17.13.M. Peryasipua PACCMOTPUM PETJ19Phoc76 OGEHOU: Teopena Aoctatou. YCA. Perya. Dyonus: (3 (7) - ne(nem. 040411) => g(ny)-person. SM-PERYASIPAA (DIg(Ti))3-OFPAHUYENA NA H NOMINH MYE 43 B NO B 2. { Mecm. 09e442 01: { 171314- peryn. (D[B,]= B-orp. MA Hommanre (orpesue) 11 (0;+00) no 0 => B, - peryu. ogeuns  $\frac{\partial^{2} \cdot \partial^{2} \cdot \partial^$ => 02 - peryu. ogeuns Mpume uum hep-Bo Kpamepa - PAO:

Hepaber 17Bo KpAMepA-PAO 1/y (7 b Bep. Modell SIBA. Peryaspacy 3 (xn) - 8BA. PCTYA. 0984404 g (a) - of 4 pp. TOTA H∂∈ R L> D[g3 ≥ g'(β) n. I(0) 17.13.14 - PC541. => # Q (0;+20)4 B, - peryu.  $\langle -\rangle / [\partial_i] \geq \frac{1}{3 \cdot 1}$ 4008A809. 401 7999 e k74340074 174046 BGINOUU. YCI. hep. KPAMERA-PAO  $u \quad D = g'^2(\theta)$ - 709 CUX. 04 CUA D[3] = = => 6, - + ppe47434A 17.13.14. - perya => #2 & (0;+20) 4> D[3]= 3 D[ \(\hat{\partial}^{1}\)\ \(\hat{\partial}^{2}\)\ \(\

