(3-p(x) = a { (401-1,0) (10,1) } + b & 0,2 } $\int p(x) dx = \int a dx + 2b + 0 = 2a + 2b = 1 =)$ $= 0 =) p(x) = 0 \left\{ (-1,0) \cup (0,1) \right\} + (\frac{1}{2} - 0) \left\{ 0, 2 \right\},$ Q & (0 = 1) - bersonia $d_1 = M(g) = \int x \rho(x) dx = \int x \partial dx +$

 $dz = M(8) = \int x^2 \rho(x) dx = \int 0 x^2 dx + 4(\frac{1}{2} - 0)$ $+1) + 2 - 40 = \frac{2}{3}0 + 2 - 40 = 2 - \frac{10}{3}0$ $D(3) = 1 - 1 = 2 - 100 - (1 - 20)^{2} = 1 + 100 - 40^{2} = 1 + 100 - 40^{2}$ $= 2 - 100 - 1 + 40 - 40^{2} = 1 + 100 - 40^{2}$ $21 = 21 = 100 \times 200 \times 200$ $\theta = \overline{\chi} \longrightarrow \widehat{\theta} = \frac{1-\chi}{2}$ D) flecueusennocmo: $M[\hat{\partial}] = M[\frac{1-\hat{x}}{2}] = M[\frac{1}{2} - \frac{\hat{x}}{2}] = \frac{1}{2} - \frac{1}{2}M[\hat{x}] = \frac{1}{2} - \frac{1}{2}M[\hat{x}] = \frac{1}{2} - \frac{1}{2}M[\hat{x}] = \frac{1}{2} - \frac{1}{2}(1-2\theta) = \frac{1}{2} - \frac{1}{2} + \theta = \theta$ 07 = 9 [½ - ½5] = 4 D[x] = 4 D[42 xi]= = 4n2 Dexis = un n Digs = = $\frac{1}{4}$ $\frac{1}{1}$ $\frac{2}{3}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{$ C) Japapenmulmours!

Ilpobeniu pergiennocmo irogeni burnomeno 2) $\frac{2}{23}$ $\int_{-\infty}^{\infty} \rho(x) dx = \int_{-\infty}^{\infty} \frac{2}{20} \rho(x,0) dx = 0$ $\int_{-\infty}^{\infty} \frac{\partial}{\partial \theta} \rho(x, \theta) dx = \int_{-1}^{\infty} 1 \cdot dx + (-1) \cdot 2 + 0 =$ (2 ln p(x,0)) p(x,0) dx = $202 = \left(\frac{\partial \ln p(x,0)}{\partial \theta}\right) p(x,\theta) dx + \left(\frac{\partial \ln p(\theta)}{\partial \theta}\right)^2$ en p(x,0) = 2 en 0 = 1 $|\ln p(\theta)| \quad \partial \ln (\frac{1}{2} - \theta)| \quad 1$ $|\partial \theta| = \int \frac{1}{\theta^2} \frac{1}{\theta} \frac{1}{(\frac{1}{2} - \theta)^2} \cdot 2 + 0 - \frac{1}{\theta^2} \frac{1}{2}$ $|\frac{1}{2}\theta|^2 \frac{1}{2} - \frac{1}{\theta^2} \frac{1}{2} - \frac{1}{$ >0 m.u 00(0(1)=) =) mogens peryuguer peryeaprooms Oyenner. 0 - receivery oyenna DIOI - orp. na V vounaume





