(4) Tax kan Eusopka - V1, 1, 20 Heroxoguno Bunumen agunque palgonogosue: L(0) = P(x=1)  $L(\Theta) = \prod_{k=1}^{N} \left(\frac{1+\Theta}{2}\right)^{k} \left(\frac{1-\Theta}{2}\right)^{k-1/2}$ Натурапьний попарири: ln L(0)= ln ( [ 1+0) ( 1-0) 1-x; )  $\ln L(0) = \sum_{i=1}^{\infty} \left( X_i \ln \left( \frac{1+0}{2} \right) + \left( 1-X_i \right) \ln \left( \frac{1-0}{2} \right) \right)$ ln L(0) = = xiln(1+0) + = (1-xi)ln(1-0)-nln2  $\left(\ln L\left(\Theta\right)\right) = \sum_{i=1}^{2} \left(\frac{\chi_{i}}{1+\Theta} - \frac{1-\chi_{i}}{1-\Theta}\right)$  $\sum_{i=1}^{\infty} \left( \frac{\chi_i}{1+\Theta} - \frac{1-\chi_i}{1-\Theta} \right) = 0$ Blegën rueno earening le nament landopre X1, , Yn kak S = \frac{2}{12} Xi v rogeraleun le grabnemue.  $\frac{S}{1+0} = \frac{N-S}{1-0} = 0$  (1+0)(1-0) S(1-0)-(n-S)(1+0) S-SO-n-n0+S+S0=0

$$2S - m - m = 0$$

$$n = -n + 2S$$

$$0 = \frac{2S}{n} - \frac{n}{n} \Rightarrow 0 = \frac{2S}{n} - 1$$

(1) k opnob nogpeg.

$$\begin{array}{l}
\underbrace{B} \underbrace{F_{1}(x)} = \int_{0}^{6} x \cdot \frac{1}{\Theta} dx = \frac{1}{\Theta} \int_{0}^{6} x dx = \frac{9^{2}}{2} \Big|_{0}^{6} = \frac{9^{2}}{2} \\
\underbrace{F_{2}(x)} = \int_{0}^{1} x \cdot \frac{1}{1-\Theta} dx = \frac{1+\Theta}{2} \\
\underbrace{F(x)} = \underbrace{P} \cdot \frac{\Theta}{2} + (1-P) \cdot \frac{1+\Theta}{2} = \frac{1}{2} \left(P\Theta + (1-P)(1+\Theta)\right) \\
\underbrace{F(x)} = \frac{1}{2} \left(P\Theta + 1 - P + \Theta - P\Theta\right) \\
\underbrace{F(x)} = \frac{1}{2} \left(1 - P + \Theta\right) = P = 1 + \Theta - 2x \left(F(X)\Theta \frac{\Theta + 1 - P}{2}\right) \\
\underbrace{Ducnepeue} \\
\underbrace{F_{1}(x^{2})} = \underbrace{\int_{0}^{1} x^{2} \cdot \frac{1}{\Theta} dx}_{1-\Theta} dx = \frac{1}{1-\Theta} \underbrace{\int_{0}^{1} x^{2} dx}_{1-\Theta} = \frac{1-\Theta^{2}}{3} \\
\underbrace{F_{2}(x^{2})} = \underbrace{\int_{0}^{1} x^{2} \cdot \frac{1}{1-\Theta} dx}_{1-\Theta} dx = \frac{1}{1-\Theta} \underbrace{\int_{0}^{1} x^{2} dx}_{1-\Theta} = \frac{1-\Theta^{2}}{3}
\end{array}$$

$$= \sum D_{2}(x) = \underbrace{\left(1 + \Theta\right)^{2}}_{1-\Theta} dx = \underbrace{\frac{1}{1-\Theta}}_{1-\Theta} \underbrace{\int_{0}^{1} x^{2} dx}_{1-\Theta} = \underbrace{\frac{1}$$

(5) 
$$E(x^{2}) = p \cdot \frac{\theta^{2}}{3} + (1-p) \cdot \frac{1-\theta^{3}}{3(1-\theta)}$$

(7)  $= E(x)$ 

(8)  $= D(x)$ 

(8)  $= D(x)$ 

(9)  $= D(x)$ 

(1-p)(1-\theta^{3}) - (E(x))

(2)  $= D(x)$ 

(3)  $= D(x)$ 

(4-p)(1-\theta^{3}) - (E(x))

(5)  $= D(x)$ 

(6)  $= D(x)$ 

(7)  $= D(x)$ 

(8)  $= D(x)$ 

(9)  $= D(x)$ 

(1-p)(1-\theta^{3}) - (E(x))

(1-p)(1-\theta^{3}) - (E(x))

(2-p)(1-p)(1-p)

(3)  $= D(x)$ 

(4)  $= D(x)$ 

(4)  $= D(x)$ 

(5)  $= D(x)$ 

(6)  $= D(x)$ 

(7)  $= D(x)$ 

(8)  $= D(x)$ 

(9)  $= D(x)$ 

(1-p)(1-p)

(1-p)(1

0 40) (10)

$$E(\vec{r}) = \frac{(\Theta + 1 - 2\bar{y}) \cdot \Theta^{2}}{3} + \frac{(1 - \Theta - 1 + 2\bar{x})(1 - \Theta^{3})}{3(1 - \Theta)}$$

$$= -\Theta + 2\bar{y} + 2\Theta \bar{x}$$

$$= -\Theta +$$

$$P = \frac{3s^{2} + 2\bar{y} - \bar{\chi}^{2} - 1}{2\bar{y} - 1}$$

$$\Theta = \frac{3\bar{y}^{2} + 3s^{2} - 2\bar{y}}{2\bar{y} - 1}$$