۲۳) بلی رافتی از تعرف ملی دو برد المتفاده توفیم دو . (۲) = P = 1-9 و ۲ to con de de verin pal = P 9 = m 14) Elil enim Pval = (e) الم تعالم انعال ولدا (10 John Y. y dil of Prod = (m) p 2 2/0 (1) e-m Boloem, Johns كه فوالمتم بال = (m) p m/a q 1/2 m Jus ~ bernolicp) budis X ~ binomial (p=p, n=e) -> E [X] = 4) = 1491,1° X Slerim Lib EIX) > (11-X)m \ EIX] \ (1+x)m -> (1-x)m & ep & (1+x) m سار افرام کلیدا فرد ۷ م (W ESV = SOV = YM -> E[SV] XN = YE [M] Jévies = [SV] = + xep = (n-1)p = 0,1109/18

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$$\frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial \nu} \right) = \frac{1}{\sqrt{\nu}} \int \tilde{\nu} \left(\frac{\partial \nu}{\partial$$

$$\frac{1}{(B)} \frac{1}{3i} \frac{1}{\sqrt{\text{closed}}} \sim \frac{\text{bernol}i((p')p'q)}{\text{bernol}i((p')p'q)}$$
(B) $\frac{3i}{\sqrt{\text{closed}}} \sim \frac{1}{8} \frac{$

$$P = \frac{E[A]}{E[A] + E[B]}$$

$$= \frac{(n') p''}{(n') p'' + r'(n') p'' + r'' p'' q} = \frac{P}{P + r'' q}$$

1 Mg = Mx Colendor colle, ild sulle of sulle مورنار ال الماري المار Ulin; W n E [ri] = 1 x E (China) 1) L' ((()) - 1/1) " $\Rightarrow E[x_i] = \frac{r}{r} \times (r') p^{r'}$

$$X_{n} = \sum_{i \neq j} I_{ij} \longrightarrow E[X_{n}] = \binom{n}{p} E[I_{ij}]$$

$$= \binom{n}{p} (1-j)^{r})^{n-r}$$

$$\frac{\operatorname{mar}(\operatorname{Co}^{\vee})}{\operatorname{n}\to\infty} \int (X_{N} \times 1) \left\langle \frac{\operatorname{E}(X_{N})}{\operatorname{I}} \right| = \lim_{N\to\infty} \left(\frac{N}{Y} \times 1 - p^{*} \right)^{N-1} \left(\frac{Y}{Y} \times 1 - p^{*} \right)^{N-1}$$

$$= \lim_{N\to\infty} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}}$$

$$= \lim_{N\to\infty} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}}$$

$$= \lim_{N\to\infty} \frac{\operatorname{max}(\operatorname{n}-1)}{\operatorname{max}} \frac{\operatorname{max}(\operatorname{n}-1$$

lin p (x,7/1) {1

> lim p(xn=0)=1

مالا هندات می حود رای ماده ماستار رارند سے قبل کران مالی ۲ فولسرال

$$A_{ij} = di p_{i,j} \longrightarrow A = DP$$

$$\longrightarrow p = D^{-1}A$$

$$P_{K} = \sum_{K=1}^{N} P_{K} \times P_{K} = \frac{1}{di} \sum_{j=1}^{N} \frac{1}{dj} \left(\frac{\partial u_{j}}{\partial u_{j}} \right) \int_{0}^{1} \frac{1}{di} = 1$$

$$P_{ij}^{t} = (D^{-1}A)_{i}^{t}$$

$$= \frac{1}{di} \left(\sum_{j=1}^{n} \frac{1}{dj} \right)^{t-1}$$

$$= \frac{1}{di} \left(\sum_{j=1}^{n} \frac{1}{dj} \right)^{t-1}$$

$$= (D^{-1}A)_{i}^{t}$$

$$= \frac{1}{di} \left(\sum_{j=1}^{n} \frac{1}{dj} \right)^{t-1}$$

$$= (P_{ij}^{-1} + P_{ij}^{-1} +$$

$$P_{ij} = \frac{1}{d^{i}} \left(\sum_{K=1}^{N} \frac{1}{d_{K}} \right)^{t-1} P_{ji}^{(4)} = \frac{1}{d_{j}} \left(\sum_{K=1}^{N} \frac{1}{d_{K}} \right)^{t-1}$$

$$\Rightarrow \frac{p^{(t)}}{p^{(t)}} = \frac{g}{di}$$