

$$\begin{array}{c} +9 \cdot \frac{4}{36} + \frac{1}{36} \left(12 \cdot 15 \cdot 18 \right) + 16 \cdot \frac{3}{36} + 4 \cdot \frac{1}{36} \left(5 \cdot 6 \right) + 25 \cdot \frac{2}{36} + \frac{5}{36} \cdot 6 + 1 = \\ = \frac{371}{36} \approx 10, 3 \\ \text{cov} \left(Y, Z \right) = \frac{371}{36} - \frac{91}{26} \cdot \frac{21}{6} = \frac{315}{216} \approx 1, 46, \\ \text{Z-bagum, } Y \cdot \text{quegas.} \\ \hat{Y} = E(Y) + \sqrt{D(Y)} \cdot g(Y, Z) = \frac{2}{\sqrt{D(Y)}} \\ \hat{Y} = \frac{21}{36} + \frac{2555}{36} \cdot \frac{9}{219} \left(\frac{2}{\sqrt{105}} \right) = \frac{91}{36} + \frac{3}{2} \cdot \frac{2553}{27395} \\ \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{91}{36} + \frac{1}{2} \cdot \left(2 - \frac{21}{6} \right) = \frac{1}{2} \cdot \frac{1}{6} + \frac{$$

37) a)
$$P(3=1)$$
 $\delta)P(3>1)$ b) $P(3+7=k)$
2) $P(3=1|3+1=k)$ g) $P(3=k|3=1)$
3 " γ negabilization ρ .

a) $P(3=1)=\sum_{m=1}^{\infty}(pq^{m+1})^2=\sum_{k=1}^{2}q^2=\frac{p}{1+q}$
b) $P(3>1)=P(3>1)=P(3>1)+P(3<1)=1$
 $P(3>1)+P(3=1)+P(3<1)=1$
 $P(3>1)+P(3=1)+P(3<1)=1$
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 $P(3>1)+P(3=1)+P(3>1)=1$
 $P(3>1)+P(3=1)+P(3>1)=1$
 $P(3>1)+P(3=1)+P(3>1)+Q=1$
b) $P(3+1=k)=\sum_{k=1}^{\infty}pq^{k-1}+pq^{k-1}=p^2\sum_{k=1}^{\infty}q^2=p^2q^{k-2}(k-1)$

2) npu l > k: $P(3 = l \mid 3 + \gamma = k) = 0$ Eau $l \le k$: $P(3 = l \mid 3 + \gamma = k) = P(3 = l, 3 + 2 = k) = P(3 + 2 = k)$ $P(3 = l) P(\gamma = k - l) P(3 + \gamma = k) = P(3 + \gamma = k)$ $P(3 + \gamma = k) P(3 + \gamma = k) P(3 + \gamma = k) P(3 + \gamma = k)$ 3g(c) $k \ge 2$, $1 \le l \le k - 1$. 9) $P(3 = k \mid 3 = \gamma) = P(\gamma = k) = P(3 = k)$

(39) BN areen augraino pazules	п нерази
mapol. 3-renan nyaron areek. Mor momen pazionario Cir. La = {1, ean k-voi nyar La = {0, ean k-voi ne nyar 3 = 2, dik	(N-1)! h!
E(3) = E(2x) = NE(2x) $E(3) = P(1-2) = NE(2x)$ $E(3) = P(1-2) = NE(2x)$ $P(1-2) = P(1-2x) = N-1$ $P(1-2x) = N-1$ $= N-1$ $= N-1$ $= N-1$ $= N-1$	

$$E(3) = \frac{N(N-1)}{N+n-1} = 3^{2} = \sum_{k,3\neq 1}^{N} L_{k} L_{j}$$

$$E(3) = \sum_{k,3\neq 1}^{N} E(d_{k}, d_{j}) = NE(d_{1}^{2}) + (N^{2}N) E(d_{1}, d_{2})$$

$$E(d_{1}^{2}) = E(d_{1})$$

$$E(d_{1}, d_{2}) = P(s nepbose gle nyeros)$$

$$P(s nepbose gle nyeros) = \frac{C(N-2)+n-1}{C(N-2)+n-1} = \frac{(N-2)(N+1)}{(N+n-2)(N+n-1)}$$

$$E(3^{2}) = \frac{N(N-1)}{N+n-1} + \frac{N(N-1)(N-2)(N-1)}{(N+n-2)(N+n-1)}$$

$$D(3) = E(3^{2}) - E'(3) = \frac{N(N-1)}{N+n-1} + \frac{N(N-1)^{2}(N-2)}{(N+n-1)^{2}}$$

$$= \frac{N^{2}(N-1)^{2}}{(N+n-1)^{2}}$$

(HO) 3 is n - receia nordinereus equences is unectionally not in spoc. urpainteon vocas

Let <math>1, has k-row bornais 1.

Ananomeno 3k gus 6. $3 = \sum_{k=1}^{2} d_k$, $2 = \sum_{k=1}^{2} 3k$. $E(3) = \sum_{k=1}^{2} E(d_k) = n \cdot \frac{1}{6} = \frac{n}{6} = E(2)$

$$E(3^{2}) = E(\frac{5}{5}, \lambda_{k}, \lambda_{j}) = E(\frac{5}{5}, \lambda_{k}) + E(\frac{7}{5}, \lambda_{k}, \lambda_{j}) = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{36} + \frac{1}{36$$