$$Pr\left[\frac{1}{K} \leq b\right] = Pr\left[\frac{1}{K} \leq b \cdot n\right]$$

$$= Pr\left[\frac{1}{K} \leq b \cdot n\right]$$

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$$\Rightarrow \left[\frac{1}{K} \leq b \cdot n\right]$$

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/

$$b \in \frac{3}{10}, \frac{6}{10}, \frac{2}{10}, \frac{9}{10}$$

$$\frac{100 - 100}{100} = \frac{40 - 9 - 30}{13}$$

$$= \frac{40 - 9 - 30}{13}$$

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$$\frac{\overline{\Delta}}{\overline{\Delta}} \left(\frac{-6}{\overline{\Delta}} \right) = 1 - \overline{\Delta} \left(\frac{6}{\overline{\Delta}} \right) = 0 \quad \text{Nodementalung:}$$

$$\frac{\overline{\Delta}}{\overline{\Delta}} \left(\frac{-2}{\overline{\Delta}} \right) = 1 - \overline{\Delta} \left(\frac{2}{\overline{\Delta}} \right) \approx 0.123 \quad \overline{\Delta} \approx 0.123$$

$$\Phi(\frac{2}{3}) = 4 - \Phi(\frac{2}{3}) \approx 0.123$$

$$\frac{1}{4}\left(\frac{1}{3}\right) \approx \frac{1}{4}\left(\frac{1}{1.154}\right) \approx 0.754$$

$$\frac{1}{4}\left(\frac{1}{3}\right) \approx \frac{1}{4}\left(\frac{1}{1.154}\right) \approx 0.8768$$

$$\frac{1}{4}\left(\frac{1}{3}\right) \approx \frac{1}{4}\left(\frac{1}{3.464}\right) \approx 0.99994$$

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$$\frac{1}{4}\left(\frac{1}{3}\right) \approx \frac{1}{4}\left(\frac{1}{3.4644}\right) \approx 0.99994$$

$$\bigcirc \times \bigcirc$$

$$2:\sim 0.123$$

$$\mathcal{J}\cdot \approx 0$$

$$\Rightarrow \boxed{+\frac{10.05}{127} \cdot \sqrt{n}} - \boxed{+\frac{10.05}{127} \cdot \sqrt{n}}$$

$$= 2 \overline{\Delta} \left(\frac{3.2}{3} \sqrt{n} \right) - \Delta \stackrel{!}{\geq} 0.99$$

$$\begin{array}{ccc}
 & \overline{4} \left(\frac{3.2}{37} \right) \geq 0.995
\end{array}$$

$$\frac{0.2}{13} \text{ (n7 } \ge 2.58$$

$$\approx \text{ n } \ge 500$$

B K~Bin(nip)

Pr[K=u] ≥ 0.99

II

Pit K-E[K] > u-np]~ I(- u-np)

North North > np(n-p)

 $-\frac{\mu-n\rho}{(n\rho(1-\rho))} \ge 2.23$

 $u \leq [np - 2.33 [np(1-p)]$

$$u(100, \frac{6}{10}) \approx [48.6] = 48 = : u_4$$
 $u(100, \frac{7}{10}) \approx [59.32] = 59 = : u_3$
 $u(100, \frac{8}{10}) \approx [76.68] = 70 = : u_2$
 $u(100, \frac{9}{10}) \approx [83.01] = 83 = : u_2$

Noten vertiling für
$$p = 0.35$$
, $n = 100$

Pr [$K = UJ = Pr$ [$Kn = U$]

Coie $\ln Q = \frac{1}{2} \left(\frac{1}{12} - \frac{1}{12} \right)$
 $U_{14} = 48 \land D \quad D \quad (-6.24) = 0.00$
 $U_{3} = 59 \rightsquigarrow D \quad (-3.76) = 0.000 \land 1 = 0.0$
 $U_{2} = 70 \rightsquigarrow D \quad (-1.15) = 0.15$
 $U_{1} = 83 \rightarrow D \quad (1.85) \approx 0.97$

Noten vertiling:

 $C = 0.0 \quad C = 0.00 \quad C = 0.00$
 $C = 0.00 \quad C = 0.00$

$$\frac{9.2}{N_{1}} \times_{1,1} \times_{2,1} \times_{10} \sim \mathcal{N}(9.66, 0.01)$$

$$\frac{9.2}{N_{1}} \times_{10} \leq t = 1 - (1 - \Phi_{N_{1}0}(t)) \geq 0.99$$

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$$\frac{1}{N$$

Ceoucht: Nullstelle ven

$$x'' + 10 x^{9} (1-x) + 45 x^{8} (1-x)^{2} - 0.01$$

für $x \in t^{6}$, 17

$$\sim 5 \mu_{10}(4) = \overline{\Phi} \left(\frac{t-\mu}{6\mu} \right) \approx 0.3883$$

$$\sim -\frac{4\mu}{6} = 0.3$$

$$6 = 9.65$$

9.3

$$f_{2}(t) = I_{(0,1)}(t) | F_{1}(t) = t \cdot I_{(0,1)}(t) + I_{(1,\infty)}(t)$$
 $f_{2}(t) = \int_{\infty} f_{1}(s) f_{1}(t-s) ds$
 $f_{2}(t) = \int_{\infty} f_{2}(t) | I_{(0,1)}(t-s) ds$
 $f_{3}(t) = \int_{\infty} f_{1}(s) I_{(0,1)}(t-s) ds$
 $f_{4}(t) = \int_{\infty} f_{2}(t) | I_{(0,1)}(t-s) ds$
 $f_{5}(t) = \int_{\infty} f_{5}(t) | I_{(0,1)}(t) | I_{(0,1)}(t$

.

$$\int_{-\infty}^{\infty} f_{2}(s) f_{2}(t-s) ds
= \int_{-\infty}^{\infty} (s) \int_{(s,2)}^{\infty} f_{3}(s) + (2-s) \int_{(s,2)}^{\infty} f_{3}(s) \int_{(s,2)}^{\infty} (1-s) ds
= \int_{-\infty}^{\infty} (s) \int_{(s,2)}^{\infty} f_{3}(s) \int_{(s,2)$$

$$\overline{T}_3(t) = \int_{-\infty}^{6} f_2(s) ds$$

$$= \frac{1}{6} t^{3} \prod_{c,\Omega} (t) + \frac{1}{2} + \left(\frac{2}{6} + \left(\frac{2}{6} - \frac{1}{3} (s - \frac{3}{2})^{3}\right) \right) \left(\frac{1}{4}\right) \prod_{c,Q} (t) + \left(\frac{5}{6} + \left(\frac{1}{6} (s - 3)^{3}\right) \right) \left(\frac{1}{4}\right) \prod_{c,Q} (t) + \prod_{c,Q} (t$$