Baranie 1

Taxwax P=0,8 u n=100 pemaeu no opopuyre q=1-p=0,2 Bepry Mu Pn(X=K)=Cnpkqn-K Proo(85) = C 85 . 0,8 85 . 0,215 = 0,0481

Tax wax P=0,0004 y n=5000 pema en no apopuyre Nyaccona: Pm=\frac{1}{m!} \cdot P=1 \langle 1 = 5000.0,0004 = 2 a) $P_0 = \frac{2}{0!} \cdot e^{-2} = 0,1353$ S) $P_2 = \frac{2^2}{9!} \cdot e^{-2} = 0,2707$

Badamue 3 Pennaeon opopungava Beprugan: Pro(X=K)=ChPq Pr44(70) = C144.0,5 70 0,5 144-70 = 0,0628 | 9=1-P=0,5

Baranie 4

a)
$$\frac{C_7^2}{C_{10}^2} \cdot \frac{C_9^2}{C_{11}^2} = \frac{\frac{7!}{2!(7-2)!}}{\frac{10!}{2!(10-2)!}} \times \frac{9!}{\frac{2!(9-2)!}{2!(11-2)!}} = 0,3054$$

$$S) P(A) = \frac{C_7^2}{C_7^2} \cdot \frac{C_2^2}{C_2^2} \cdot \frac{C_3^2}{C_1^2} \cdot$$

6)
$$P(A) = 1 - \frac{c_3^2}{c_{10}^2} \times \frac{c_2^2}{c_{11}^2} = 1 - \frac{3!}{2!(10-2)!} \times \frac{2!}{2!(12-2)!} = 0.9988$$