diag A (yyerum muyena) = 0,001 IP (ga yyenum = 2 nouse out 5000 uspende) =? Revenue X ~ Bin (5000, 0.001) X = # yyerbaura" P(x=2) = 1-P(x=0) + 1P(x=1) = 1- (5000/po/1-p) 5000 (5000) pt (1-p) 5000  $= 1 - \left(1 - \frac{1}{1000}\right)^{1000} - 5000 \cdot \left(\frac{1}{1000}\right) \cdot \left(1 - \frac{1}{1000}\right)^{1000}$  $\left(1-\frac{1}{n}\right)^{n}$  -  $e^{-L} \approx L - e^{-5} - 5.e^{-5} = L - 6e^{-5} \approx 0.95$ 

Gag: 7 ramm, our usuno 3 gebeurus Ussupame 4.

X = # geperenu out uproeneune " payre u oranbaneso na X (EX) Xunepronenjavno penjenne

Pernum u nomun aux orujo N, mengy nomun uma M senejanu (cayranny) X~ HG (u, M, N)

Х = "# приветнени специании прини" (он \$ п-иге приветнии)

P(X=K)= (M)(N-M)

EX= 1. 12 +2. 18 +3. 4 =

= 60 = 12

XN HG(4,3,7), us. e. P/x=w/=

35 1/25 185 135  $fX = N. \frac{M}{N} = 4. \frac{3}{2} = \frac{12}{7}$  $\mathbb{P}\left(X=0\right)=\frac{\binom{3}{6}\binom{6}{3}}{\binom{7}{4}}$  $P(x=2) = \frac{\left(\frac{2}{5}\right)\left(\frac{2}{5}\right)}{f^{\frac{2}{5}}}$ 18 (x-1) = (3)(3)