Пусть X - случайная величина, рассмотрим следующие типы é panpegeneruis 1. Pabroneproe pacopegenerale (Hempepublice)  $ρομικιμιλ ρατηρεσελετιλ <math>F(x) = P(X = x) = \begin{cases} b & x < 0 \\ b - a \end{cases}$   $x \in Calb$ 

Mamenamineckoe omugartue  $M(\chi) = \frac{a+b}{2}$ Guenepeul:  $D(\chi) = \frac{(a-b)^2}{12}$  2. JUHOMNOMBHOE pachpegerenne (n-paz, P-beposimhocinb yenexa) Grynkyna beposimhocinh:  $P(X=K)=C_nP(I-P)^{n-K}$ Quitkying pacing egenerial:  $F_X(K) = P(X \le K) = \sum_{k=0}^{K} C_n^k p^k (1-p)^{h-k}$ Mamenaminedae smugainne: M(x) = hP

=D(x)=hP(I-P)Juchercus

3. Parnpegeneure Myaccoma Opyrikyus Beposiniuocinu:  $P(K) = P(X=K) = \frac{\lambda^K}{K!}e^{-\lambda}$ Opynkyns pacnpegenemus  $f_X(K) = P(X \leq K) = J([K+1], \lambda)$ zge J(S,X)= (ts-1e-tdt Manenanineckoe omugature M(X)=> )(X) = ) guchencus

4. Hopmanbhoe pachpegenerius:  $\int_{X}(x) = \frac{1}{2\sqrt{27}}e^{-\frac{(x-M)^2}{2\sqrt{27}}}$ 

орункуих распределения  $f_X(x) = P(X \le x) = \frac{1}{2} \left[1 + erf(\frac{x-\mu}{\sqrt{2}\sigma^2})\right]$ где  $erf(x) = \frac{2}{\sqrt{2}} \left[e^{-t^2}dt\right]$ 

Mamenamureckoe omugatue: M(x) = Mchencus:  $D(X) = \sigma^2$ 

## 5. TKChoher Guardhoe pachpegerenue hromhoomb hachpegerenue $f_X(x) = \begin{cases} \lambda e^{-\lambda x} & x > 0 \\ 0 & x = 0 \end{cases}$ opynkyne pachpegerenue $f_X(x) = P(X = x) = \begin{cases} 1 - e^{-\lambda x} & x > 0 \\ 0 & x = 0 \end{cases}$

Mameriamineckoe omuganne : 
$$M(x) = \lambda^{-1}$$
  
Guenepeul :  $D(x) = \lambda^{-2}$