Trepsep N2, Danamus & pasama 1) Da, T.K. Paymore apocipanista Internaprior nex good monys gasaro ogunanosyro спугантиро всингину. 2) M(X+Y) = Mx + My3) Duenepours cymnor cyronion bennum brenza pabna cymne ик дисперсий, Таково сим ЭТИ вештина перависина. 4) Consiste (noragaiens) porcentarime boupys unmoninganiel. 5) Тиметрически — 750 пинирада Musinoyranomaa, ompanomacs na orheque de Pynnipul, hudings x Thomeyou Kosopan da parna beparenocis nenogame cupantion

bennum 6 jagannon pronspor.

6) 
$$1$$
, T.K. 
$$\int_{-\infty}^{+\infty} f(u) du = 1$$

- 7) Her f(n) >0
- 8) Hynro-ner Egnnyon-ner
- 9) Mynno, T.K. P(X=2)= Jf(4) dy = 0

Упр4 Мантогка не загорите —  $p \in \{0,1\}.$ 

Chagne: E(X)+E(Y)=E(X+Y)

Paremothum 100 angranion bumum 152/=2100

1-uanna ne jaraperars.  $\begin{cases} 1, p \\ 0, (q-p) \end{cases}$ 

 $X = X_1 + X_2 + \ldots + X_{100}$ 

 $E(X) = E(X_1) + E(X_2) + ... + E(X_{100})$ 

=> (1.p)+(0.(1-pl) - gune Xi

Oiber:  $\sum_{i=1}^{100} \mathbb{E}(X_i) = 100p$ 

$$P = \frac{1}{6} =$$

Ynf 3 Pampigmenne Elprynn { 1, Bep=P nogxogir 8 odyem brige (0, bep=(1-p) gme Tunapnen gaynnym. COS(2)+2 cos(1)+2 (cos(0)+2=3

 $\frac{105(2)72}{P} \qquad \frac{105(1)72}{P} \qquad \frac{105(0)72}{P}$ 

 $F(\cos(a)+2)=((\cos(1)+2)\cdot p)+(3\cdot (1-p))=$ =  $p\cdot\cos(1)+2p+3-3p=p\cos(1)-p+3$ 

ynp 6 1) Faren genass pergus pobly,

enn % Thank the memberole

2) Chepne mono 70 monomy.  $E(X) = \sum_{i=0}^{+\sigma} x_i \cdot p_i$ 

Company had Berneria - Kort-bo Karectberrow, Gotaneir.

Parimospini na racorious infinicipe.

Po = 21/0 - Grano cpajy cuamantal

P1 = 98%. 21. - Brokens gesterno cuamantal

p = 98%. 98%. 21/- - Therdel gesterno momental

T. H. Corbishes regalinement.

$$IE(X) = \sum_{i=0}^{+\infty} p_i \cdot i, \text{ ye } P_i = (138\%)^i \cdot 2\%$$

$$\left(\sum_{i=0}^{+\infty} \chi^i\right)^i = \sum_{i=0}^{+\infty} i \cdot \chi^{i+1}$$

$$f(n) = \sum_{i=0}^{+\infty} n^{i}$$

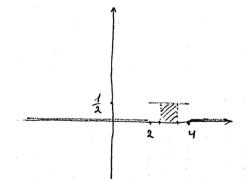
$$f'(n) = \sum_{i=0}^{+\infty} i \cdot x^{i-1}$$

$$f(x) = \frac{1}{1-x}$$

$$f'(x) = \left(\frac{1}{1-x}\right)' = \frac{(1-x)\cdot 1' - 1\cdot (1-x)'}{(1-x)^2} = \frac{1}{(1-x)^2} = \frac{1}{(1-x)^2} = f'(x)$$

$$f'(0,98) = \frac{1}{4 - 998} = \frac{1}{0,0004} = \frac{10000}{4} = 2500$$

Jup 7/



$$S = a \cdot b = \frac{1}{2} \cdot 1 = \frac{1}{2} - \text{ Bepowernocro} \ P(2, 5 < a < 3, 5)$$

$$P(2, 5 < a < 3, 5) = \int_{2, 5}^{3, 5} \frac{1}{2} du = \frac{1}{2} u = \frac{1}{2} (3, 5 - 2, 5) = \frac{1}{2} \cdot 1 = \frac{1}{2}$$

$$2, 5$$

Jup 8/ f(4) = 0, 4<1

a)  $f(u) \rightarrow 0$   $upm \ U \rightarrow (+\infty)$ 

To oberity mornous.

1) unother > 0

a) Thomas nos hagouni

$$= \begin{cases} (+\infty) \\ = \begin{cases} f(u)du = 1 \end{cases} = \begin{cases} (+\infty) \\ f(u)du = 1 \end{cases}$$

$$\int_{C} \frac{1}{u^{-3}} \int_{C} \frac{1}{u^{-3}} \int_{C} \frac{1}{u^{-3}} = C \cdot \left(0 - \frac{1}{-3}\right) = C \cdot \frac{1}{3} = C$$

8) 
$$P(X<3)$$

$$\int \frac{c}{m} d\mu, pc c = 5$$

$$\int \frac{3}{82} d\mu = \int 3 \cdot n^{(-7)} d\mu = 3 \cdot \frac{n^{(-3)}}{3!} = 3$$

$$= 3 \cdot \left(\frac{3}{(-3)} - \frac{3}{(-3)}\right) = 3 \cdot \left(\frac{24}{(-3)} - 1\right) = 3 \cdot \left(\frac{24}$$