Bregno? Cubempo?

> nyacconobium upsyecc

-> brejectoblant mossecc.

N(t) = N[o;t] - rucuo, youcul!

yo reprog[o;t]

Akacour

Inil) N(0)=0

Stat. Cray-cob mup-m

N(a; 6] ~ N(a+s; 6+s]

1 ogek. paup

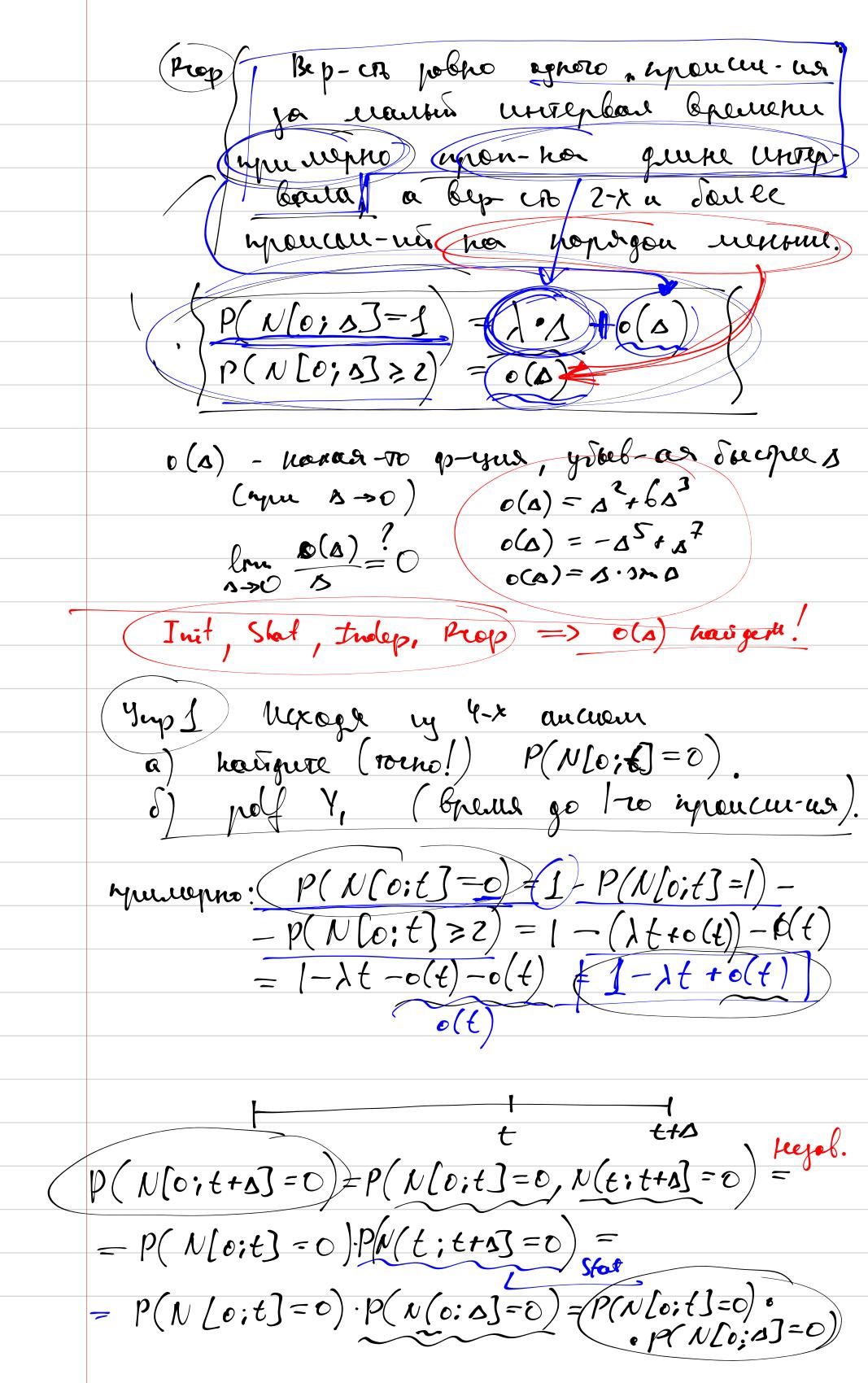
Luos-lo poucur ja repug (a:]

Indep prupayenus ja henep-ce unterbaile rejablichma.

t₁ t₂ t₃ t₄ ·····t₁

 $N(t_1;t_2] = N(t_2) - N(t_1)$ $N(t_2;t_3] = N(t_3) - N(t_2)$ keyal-Mu

 $\nu(t_{n-1};t_n)=\nu(t_n)-\nu(t_{n-1})$



$$N(t) = N(c;t)$$

$$P(N(t+a) = 0) \neq P(N(t) = 0) \cdot P(N(a) = 0)$$

$$h(t+a) = h(t) \cdot (1 - ha + o(a))$$

$$h(t+a) = h(t) \cdot (1 - ha + o(a))$$

$$h(t+a) = h(t) \cdot (1 - ha + o(a))$$

$$h(t+a) = h(t) \cdot (-ha + o(a)$$

$$h$$

cd:
$$p(Y_1 \le t) = |-P(N[o;t] = 0) =$$

$$= |-exp(-\lambda t)$$

$$p(N[o;t] = 1)! + |-t|$$

$$bol-ca reply grap. yp. |-sox B| 0$$

$$Texpulka: uy Yx accusal myacc. neroad largues: Y1, Y2 ~iid lap (1).1

N(a; a+s) ~ Polss (1.8)

Y: $\{Y_1(t) = \{1, 4 < 0\}, t > 0\}$

$$\{Y_2(t) = \{1, 4 < 0\}, t < 0\}$$

$$= exp(-\lambda s) \cdot (\lambda s)$$

$$V(X_1(t) = \{1, 4 < 0\}, t < 0\}$$

$$= (N[a; a+s] + \lambda s) \cdot (N[a; a+s] = \lambda s)$$

$$V(X_1(t) = \{1, 4 < 0\}, t < 0\}$$

$$= (N[a; a+s] + \lambda s) \cdot (N[a; a+s] = \lambda s)$$

$$V(X_1(t) = \{1, 4 < 0\}, t < 0\}$$

$$= (N[a; a+s] + \lambda s) \cdot (N[a; a+s] = \lambda s)$$

$$V(X_1(t) = \{1, 4 < 0\}, t < 0\}$$

$$= (N[a; a+s] + \lambda s)$$

$$V(X_1(t) = \{1, 4 < 0\}, t < 0\}$$

$$= (N[a; a+s]) + \lambda s$$

$$V(X_1(t) = \{1, 4 < 0\}, t < 0\}$$

$$= (N[a; a+s]) + \lambda s$$

$$V(X_1(t) = \{1, 4 < 0\}, t < 0\}$$

$$= (N[a; a+s]) + \lambda s$$$$

Ymp. no sept.

Ranois goumna Bet Cropo ha hlagpart,
roobe ran Julia Eason na (lep =0.9.
Korr du ogene

$$P(N[a^{2}] \ge 1) = 0.9$$

$$P(N[a^{2}] = 0) = 0.1$$

$$\frac{1}{2}a^2 = \ln 10$$
 $a^2 = 2 \ln 10$
 $a > 0$
 $a = \sqrt{2 \ln 10}$

Neix (myacc)
Neix 10 aux/rac B(t) lauri

A(t) laura (myacc)

tego a) P(maria hongent pobbo 12 aux ja rac)? 1) P(ja sum. 5 mayrus per ogperso) $= P(A(1)=n) \cdot P(B(1)=0) + \dots$ $\lambda_{a}=10 \qquad \lambda_{a}=5$ $= \exp(-10.1) \cdot \frac{(10.1)^{12}}{12!} \cdot \exp(-5.1) + \dots$ A(c) = 0 B(0) = 0 =) [(0) = 0]Fre van Mein ((a+s; b+s) = A(a+s; b+s) + B(a+s; b+s)(a; b] = A(a; b) + B(a; b] P(C[0:2]=1)=P(A(A)=0). P(B(A)=1)+ + P(A(A)=1) · P(B(A)=0) $\Delta \cdot \phi(\Delta) = \phi(\Delta)$ $= \left(\left[-\sqrt{A \cdot \nabla} + O(A) \right] \cdot \left(\sqrt{B \cdot \nabla} + O(A) \right)$ $V_{S} = O(V)$ + (\(\lambda_{A\cdot\D}\to(\D))\cdot(1-\lambda_{B\cdot\D}\to(\D)) o(1) + (1x + 1/8) · 1

Ac = lat la - no roks

(f) - nyorc up over c c united (rate)=15

$$P((1)=12) = \exp(-15.1) \cdot \frac{(5.1)^{12}}{12!}$$

i) $P(\text{husto he han-r ja 5 numy7})$
 $= P(Y_1 > \frac{1}{60}) = P(C[0; \frac{1}{60}] = 0)$
 $\exp(-1, t)$
 $= \exp(-15 \cdot \frac{1}{60}) = \exp(-\frac{1}{40})$

Unor.)

 $Y \sim \exp(3)$
 $Y \sim \exp(-\frac{1}{40})$
 $Y \sim \exp(-\frac{1}{40})$