Xaparopicourecnie Dyrk-un i- vorinnerchal egamusa i=1-1 eit = cost + i sint - pop-a Jürepa J. Z. d. in. - Kommerchal C.B. rye replan rioner von Onp. [[] + in] = [[] + i [[]] C.B. G. rus-al P-l Orp. Xap-on q-en  $\varphi_{\varepsilon}(t) = E e^{i \varepsilon t}$ te R Chon caba: 1) Xap P-2 cymecloyet gae mosoù c.b.

E upa ren / Po(t) | < 1 1) Xup 9-2 Dor-Bo

Dox-80  $V(x) = E[\eta^2] - (E\eta)^2 > 0,00$   $E[\eta^2] > (E\eta)^2$ 

| 4=(t)|2= | Eeist/2 | Eoset + i Esinet/2= = | E cos gt | 2 + | E singt | 2 \ E cos gt + E singt =  $= \left\{ \left( \cos^2 + \sin^2 \right) = \right\}$ He gorazani cyujecobobanie 2) J fg(t) - xap-ae P-a C 6 g Tonja xap-ae P-e C b n=a+6 g Pa+Ge(t) = eit(a+BE) = eita (+b) Pox-Bo

Pareg(t)=Ee it(a+Bg) ita itbg

Ee = eita Po (tb) 3) Xap-al P-l cyrinin nezab-x congrammer x bournin pabra repouzb-10 XOP-X P-un charalourx: echi chyz-oie

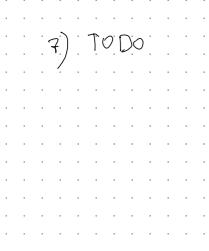
benuruna & u 1 rejabicious, 00 no

doncoby ? nav-x oxugarum Pety(t)= Eeit(g+1) = Eeitg Eeitg = (g(t) · (r) 4) Ryco J nomeno nopeyea Kell cryz-où Remirein & r.e. E/E/K / Dorga Xap-ae P-2 (E(t) respepsion gup-ra K-2 ipourboyrul & k paz u ce

tighe Chezasia c noneston ropeyna k pabencoloni  $\varphi_{\mathcal{S}}^{(k)}(0) = \left\langle \frac{d^k}{dt^k} \right\rangle \left\langle \frac{d^k}{t^{-2}} \right\rangle$ 

= (Fikgreitg)/t=0=ik Egr

6) Gyserbyer Braums ognognamme Coorbercobie Mexgy pacypagen in a xap-mu P-me. No xap-où qui nomro locranolisto puenp-e l'zaconocoù ecne E asconoro renpepolone Ceneruna os  $fg(x) = \frac{1}{2\pi}\int_{C}^{\pi} e^{-itx} fg(t) dt$ (Sparise uperspazoborne Pyphe)



Yap-ue op-un coangapotions pacop-un
1) Pacop-e Berrynou \$ 0 1 ± 1 = p = p = 1 E & Bp

Yz= Ee = (1-p) Ee + p.e. =

5) Gangaponoe noprambrue pacapel
$$\xi \in N(0,1)$$

$$\xi = \frac{1}{2\pi} e^{-\frac{x^2}{2}}$$

$$\chi \in \mathbb{R}$$

$$\psi_{\xi}(t) = \int e^{it\xi} \int \frac{1}{2\pi} e^{-\frac{x^2}{2}}$$

$$\frac{1}{2\pi} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2\pi} \right) = \frac{1}{2} \left( \frac{1}{2\pi$$

$$= \sqrt{2\pi} \int_{-\infty}^{+\infty} e^{-\frac{1}{2}(x^2 - 2itx + t^2 - t^2)} dx =$$

$$= \frac{1}{\sqrt{2\pi}} \int_{0}^{+\infty} e^{-\frac{1}{2}(x^{2}-2itx+t^{2}-t^{2})} dx =$$

$$= \frac{1}{\sqrt{2\pi}} \int_{0}^{+\infty} e^{-\frac{1}{2}(x-it)^{2}} dx + t^{2}-t^{2} dx =$$

$$= \frac{1}{\sqrt{2\pi}} \int_{0}^{+\infty} e^{-\frac{1}{2}(x^{2}-2itx+t^{2}-t^{2})} dx =$$

$$= \frac{1}{\sqrt{2\pi}} \int_{0}^{+\infty} e^{-\frac{1}{2}(x^{$$

G) Hopmanonce painte 
$$\xi \sim N(a, 5^2)$$
 $\eta = \frac{\xi - a}{5} \sim N(0, 1) = 7$ 
 $\eta = \frac{t^2}{5} \sim N(0,$ 

Don-lo  $ia_{1}t = (61)^{2}ia_{2}t = (62)^{2}$   $i(a_{1}+a_{2})t = e^{2}e^{2}e^{2}e^{2}$   $i(a_{1}+a_{2})t = e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}$   $e^{2}e^{2}e^{2}$   $e^{2}e^{2}$   $e^{2}e^{2}$ 

Nemma 1  $\left(1+\frac{x}{n}+0\left(\frac{1}{n}\right)\right)^{n}$ bropo a Kraccureckin upegen rye norazioni nochegnee naraemoe recepped benno n.  $\ln(1+\frac{\lambda}{n}+0)$  reporting Deuxbircusno  $\left(\underbrace{3 + \frac{1}{X} + \frac{1}{X$