$4 F_{g}(\Xi) = |P(J+\gamma \leq \Xi)| = \int_{J_{3}, \gamma}^{J_{3}} (x, y) dx dy = \left| \begin{array}{c} u = x + y \\ x = x \end{array} \right|^{2} = \rangle \text{ m. k. } |\gamma| = 1, \text{ mo } \implies$ $\Rightarrow \sharp_{\mathfrak{F}}(u) = \int \sharp_{\mathfrak{F},y} (x,u-x) dx.$ Eur. b. zug nezabuc., mo $f_{S}(u) = \int_{S}^{+\infty} f_{Z}(x) \cdot f_{Z}(u-x) dx$. Top Domo een nago nammu beparen, romo 3>7? Morga nago pacan. 3-2=5 Tyuno 3,2~ N(0,1): IP(3>2)=? $\overline{N7}$ B neventeux crystatino u nezabucumo gpyr om gpyra paznengaemou kracmuz man, uno namgar uz mux nonagaem bi-10 sur. c beparn. p_i ($\sum_{i=1}^{n} p_i = 1$). Tyems = ({ } , ..., { } n) - aryr. bewood, i-n kann. { - ruero racon & ser. i. Don.: { } Poly(n, p, -, pn) Theospazolame angramous benume, Гассиотрин как преобразуется распр. с.в. при разминих преобразованиях. The Tyens $\xi = (\xi_1, ..., \xi_n) - acc. nenp. c. lex. <math>\xi : \xi(\Omega) = A \subseteq \mathbb{R}^n$, $\varphi : A \to B \subset \mathbb{R}^n - gugogeenoppouzu, m.e. <math>\varphi : A \iff B$, φ, φ^{-1} -nenp. gugogo.

Morga: $\varphi(\xi) - acc. nenp. c.b. u = fg(\xi)(t) = fg(\varphi^{-1}(t)) \cdot | \Im_{\varphi^{-1}} \cdot I \{ t \in B \}$ I Hago gorazamo: IP (4(3) eM) = S fq(3) (t) dt VMC Tyen M=M, LIM2, ige M, EB, M2: M2 OB= Ø. =) m. k. q() EB u M. NB = Ø, mo N. 4. = IP (() EB c M.), 17.4.= If φ(z) (t) dt m.x. na M2 poyur. nog unnerparar = 0 $\mathcal{U}_{man}, |P(\varphi(\xi) \in M) = |P(\xi \in \varphi^{-1}(M)) = \int_{\varphi^{-1}(M)} f(t) dt = \left| \begin{array}{c} x = \varphi(t) \\ t = \varphi^{-1}(x) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{array} \right| = \left| \begin{array}{c} \varphi(t) = \varphi(t) \\ \varphi(t) = \varphi(t) \end{aligned}$ $= \int_{M}^{d} \{ (\phi^{-1}(x)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{Q_{1}}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{Q_{1}}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \mathcal{V}_{\phi^{-1}} | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t)) \cdot | \partial \phi | dx = \} = \int_{M}^{d} \{ (\phi^{-1}(t))$ Hammuname | Eam $u_i = u_i(x_1, ..., x_n)$, $i = \overline{1, n}$, morga $\mathcal{I}_u = \begin{pmatrix} \frac{\partial u_i}{\partial x_i} & \frac{\partial u_i}{\partial x_n} \\ \frac{\partial u_n}{\partial x_i} & \frac{\partial u_n}{\partial x_n} \end{pmatrix}$ Tymnep | Em A & IR " - nebupomy., & - adc. nenp. c. Rex=) 7 = A &+6 unecon nominous $f_2(x) = \frac{1}{|\det A|} \cdot f_3(A^{-1}(x-b)).$ B raconnoconi, nyemo z-c.b., q-venp., z=q(z), morga: F₂(y) = IP(z = y) = IP(φ(ξ) < y) = IP(ξ < φ⁻¹(y)) = F_ξ(φ⁻¹(y))

nyems φ-very. u nonomonus dozp. Ean $\frac{2}{3}$ - $\frac{2}{3}$ c. l. $\alpha \varphi - \frac{2}{3} \frac{1}{3} \varphi^{2}(x) = \frac{1}{3} \frac{1$ Eam me φ-yaubaem, mo morga fz (y) = \frac{\frac{1}{2}(\pi)}{|φ'(\pi)|} = f_{\frac{1}{2}}(φ^{-1}(y)). \ (φ^{-1}(y))!. Tymner Tyme $\times \sim \mathcal{N}(0,1)$, m.e. $f(x) = \frac{1}{\sqrt{2\pi}} \cdot e^{-x^2/2}$. Haimu pacny. $Y=X^3, Y=X^2$. $\sqrt[4]{M.K.}$ $y=2c^3$ nonomonna na |R|, no nyem $\varphi(x)=x^3=$ $\varphi^{-1}=\varphi(y)=\sqrt[3]{y}$, $\varphi^3(y)=\frac{1}{3\sqrt[3]{y^2}}$.

=> $f_{y}(y) = \frac{1}{3\sqrt{2\pi}} \cdot e^{-\frac{1}{2}\sqrt[3]{y^{2}}} \cdot \frac{1}{\sqrt[3]{y^{2}}}$

· φ(x)= 2c² - nenonom, na IR. Tmo gerams?. $F_{\gamma}(y) = |P(\gamma \leq y)| = |P(\chi^2 \leq y)| = |P(|\chi| \leq \sqrt{y})| = |P(-\sqrt{y} \leq |\chi| \leq \sqrt{y})| = |P(|\chi| < \sqrt{y})|$ $=F_{\times}(\sqrt{y})-F_{\times}(-\sqrt{y}+0)=F_{\times}(\sqrt{y})-F_{\times}(-\sqrt{y})\Rightarrow f_{\times}(y)=\frac{f_{\times}(\sqrt{y})}{2\sqrt{y}}+\frac{f_{\times}(-\sqrt{y})}{2\sqrt{y}}=$ $= \frac{1}{\sqrt{2\pi}} \cdot e^{(\sqrt{y})^2/2} \cdot \left| \frac{1}{2\sqrt{y}} \right| + \frac{1}{\sqrt{2\pi}} \cdot e^{-(-\sqrt{y})^2} = \left| \frac{1}{2\sqrt{y}} \right| = \frac{1}{\sqrt{2\pi y}} \cdot e^{-y/2}.$ In B Dy. ayrae y= p(x) u. 8. marola, zmo x= \$\psi_y negnoznama, m.e. ognany y m.d. cooml. necuarino zuar. x: x1= \$\psi_1(y),..., \pi n= \$\psi_n(y), rge \pi_i - kgrun \$\phi(x)\$, n- were yearnest woman. 4(x). Mognganzupstame goopinging que £2 (y). B cryrae greep. c. b. : Septem goyne. beparn. $|P(x=x)| = p_k$ u repermentain nog nobyn c. b. $g(x): |P(g(x))| = g(x)) = p_k$. Ho g nomen, chreumo" necomopuse $x \in B$ ogus: $g(x_k) = g(x_{k_2}) = neodx.$ cusmums coomb. leposem. Mapminanonne u yendroue pacopegaretture def Pann. verongroso nog bernopa 3°c. ben 3 nazul. naprenammu. Tyons c. Ber. $\frac{1}{5}$ coomb. kann. $\frac{1}{5}i_1,...,\frac{1}{5}i_k$. Morga f $F_{\frac{1}{5}}(x_1,...,x_n): \{x_i\}_{i=1}^n, \{x_{i_1},...,x_{i_k}\}_{+\infty}$. => nangraum 90.p. Fz, (Xi,,..., Xik) c. Ben. 3°. Eam 3 - adc. nenp. e. ben., mo $\frac{1}{3}, (x_{i_1,...,x_{i_k}}) = \int_{-\infty}^{\infty} dx_i, \int_{-\infty}^{\infty} dx_i ... \int_{-\infty}^{\infty} dx_i - n f_3(x_1,...,x_n).$ $\{j_1,...,j_{n-k}\} = \{1....n\} \setminus \{i_1,...,i_k\}.$ Jup Tyens 3 = (3, ..., 8n)~ Poly (k, p, ..., pn), k-men. raem., n-men. succen. Novamme, emo zir Binom (k, pi), i=1, n. N9 [Dopnyra chepmen - II] £3,2- pacup. (3,2), Harimu nom. 5= 3+y. A Pacam. www. nperson. $\binom{\Theta}{S} = A \cdot \binom{3}{5}$, $A = \binom{10}{11} = \binom{\Theta}{S} = \binom{3}{5+7}$

$$\Rightarrow \begin{pmatrix} 3 \\ 2 \end{pmatrix} = A^{-1} \cdot \begin{pmatrix} 0 \\ 4 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 - 4 \end{pmatrix}$$

$$f_{S,\Theta}(x,z) = \frac{1}{|A|^{n}} \cdot f_{S,\mathcal{I}}(x,z-x) = \sum_{n=0}^{\infty} n_{n} \cdot n_{n}$$

def Tyens gans beposen. ngr-bo (SZ, F, IP), B&F, IP(B)>0.

Tendenote 90.p. c. b. omuse. B nazokin Fz (x1B) = |P({w: {(w) < 26} | B)

Tyem c. b. Juy unesom whu. 90.p. Fz, y (x, y), a y uneen ways. 90.p. Fz (y), morga

$$F_{\frac{1}{2}}(x|z-y) = \frac{F_{\frac{1}{2},y}(x,y)}{F_{z}(y)}$$
, $F_{z}(y)>0$.

Mym mpesobam, zmo IP(B)>0. Eam gle c.B. Zung unevom asc. venp. pacup., mo

Fz (x12=y) makine blecom ne bungen.

$$F_{\frac{1}{3}}(x|\gamma=y) \stackrel{!}{=} \lim_{\lambda y \to 0} F_{\frac{1}{3}}(x|\gamma \in [\gamma, y+\Delta y]) = \lim_{\lambda y \to 0} \frac{|P(\frac{1}{3} < x, \gamma \in [\gamma, y+\Delta y])|}{|P(\gamma \in [\gamma, y+\Delta y])|} = \lim_{\lambda y \to 0} \frac{\int_{\frac{1}{3}, \gamma}^{\infty} \int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} du} = \int_{-\infty}^{\infty} \frac{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du}{\int_{\frac{1}{3}, \gamma}^{\frac{1}{3}, \gamma} (u, y) du} du} du$$

=> Onpegemen yer. mom .:
$$f_{3/2}(x, y) = \frac{f_{3/2}(x, y)}{f_{2}(y)}$$
.

Manenamureckse oningame

Ввеш с.в., апоги свизать с иши чиствую жарант. : дорг. и пит. Эстип uzhrero enen. scapraum. uz Fuf.

def Mam. oning. c.b. Z nazirlaemer vennerpour lesera om z no IP.

Der unm. lesera neose. uzn. goynnizm, a y nac econo c.b- nigregnom, morga

Typozece nampoeme:

1) Earn
$$\mathcal{J}$$
-rpochaec. b., m.e. $\mathcal{J} = \sum_{k=1}^{n} x_k \cdot I_{Ak}$, mo $\mathcal{E}\mathcal{J} = \sum_{k=1}^{n} x_k \cdot |P(Ak), A_k = \{\omega: \mathcal{J}(\omega) = x_k\}$, rpn 3man bee x_i pazurube, A_i obp. pazo. S_i .

Th* [Anyroxamayusmave meopena]

Typem 3>0-c.b. Morga cyng. nowy. $\{\xi_n\}$ -npoem. neomp. c.b.: $\xi_n(\omega) / \xi(\omega) / \omega$, m.e. $\lim_{n\to\infty} \xi_n(\omega) = \xi(\omega) / \omega$, npwreim $G(\xi_n) \subset G(\xi_{n+1}) \subset G(\xi) / n$.

1 D-Bo amportunaquonna Th: Уконструктиви пострани за: нагийн дробиет области значений и возыши а пробразог пащинтерванов, возникающих в разбиении: (\(\frac{1}{n} = 1, 2, \ldots \D_n = \{ \D_n, \D_n, \ldots, \ldots, \D_{n-2}^{(n)} \}, \text{2ge \D_n = \{\omega_n = \{\omega_n \}, n\} - n \rightarrow \sigma_n = \{\omega_n, + \omega_n \}, \end{angle (n)}, $D_{k}^{(n)} = \left\{ \omega : \frac{k-1}{2^{n}} \le \frac{1}{2} (\omega) < \frac{k}{2^{n}} \right\}, k=1,..., n \cdot 2^{n}$ Tyn man kamgoe neggionee grooneme rebouemor uzuensrennen npegorgyujero grooneme. Onpegeum $z_n = n \cdot I_{\Delta_n} + \sum_{k=1}^{n \cdot 2} \frac{k-1}{2^n} \cdot I_{D_k}^{(n)}$ - npocmar c.b., Zn≤n. Ronamen, uno En ygabienibapriem yaraburo: · Manomannocming: Yw Jn(w) 7! Ecu WEAn, mo $\xi_{n+1}(w) = n$, a $\xi_{n+1}(w)$, n gameecu u nonaro b nobre grosienne na ware n+1. Ecu $\omega \in \mathbb{D}_k^{(n)}$, no $\{n(\omega) = \frac{k-1}{2^n} \}$ Hymno paccuompens kyga nonagaem ω namaze n+1:

Eam $\omega \in \mathbb{D}_{2k}^{(n+1)}$, mo $\frac{2}{2}$, mo $\frac{2}{2}$, $\frac{2k-1+1}{2^{n+1}} = \frac{k}{2^n} > \frac{k-1}{2^n} = \frac{2}{3}$, $\frac{k-1}{2^n} = \frac{2}{3}$, $\frac{k}{2^n} = \frac{2}{3$

· Manamen, uno Vw + Zn(w) A Z(w). Eam $w: g(w) = +\infty$, mo $\forall n \mapsto w \in \Delta_n = \rangle g_n(w) = n / +\infty$.

Ecunity (w) < +00, mo $\exists N : \S(w) < N = \rangle \forall n \rangle N \mapsto w \in D_k$ gur nexomorporok, a $b D_k^{(n)}$ burnouncement rep-bo $\S_n(w) = \frac{k-1}{2^n} \leq \S(w) < \frac{k}{2^n} = \S_n(w) + \frac{1}{2^n} = \rangle$

=) $\lim_{n\to\infty} g_n(\omega) = g(\omega)$.

· Uznepunocms:

To noempoemus $G_{2n} = G(\mathfrak{D}_n)$, a \mathfrak{D}_{n+1} nougraemen grossemen $\mathfrak{D}_n = \emptyset$ => G(Dn) CG(Dn+1) = Gzn+1. Tym zman Gzn+1 CGz nockonsky nperapagne 3-1(B), BE B(IR) benverauen l'écot nperapagne 3-1, (B).

14.1