Nexyus 24, 22.03.24 Иисловие ряди Преобразования Абеля S = a, b, + a, b, + ... + a, b, \ \(\sigma_k b_k \) $B_n = \sum_{k=1}^{n} b_k$ by = Bx - Bx-1 $S_n = (a_1 - a_2) B_1 + (a_1 - a_3) B_1 + \dots +$

$$S_{i} = a_{i} B_{i} + a_{i}(B_{1} - B_{i}) + ... + a_{n}(B_{n} + B_{n-n})$$

$$\sum_{i=1}^{n} a_{i}b_{i} = \sum_{i=1}^{n} (a_{i} - a_{i-1})B_{i} + a_{n}B_{n}$$

$$\sum_{i=2}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{i}) - \sum_{i=1}^{n} (a_{i-1} - a_{i})B_{i}$$

$$\sum_{i=2}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{i}) - \sum_{i=1}^{n} (a_{i-1} - a_{i})B_{i}$$

$$\sum_{i=2}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{n}) - \sum_{i=1}^{n} (a_{i-1} - a_{i})B_{n}$$

$$\sum_{i=2}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{n}) - \sum_{i=1}^{n} (a_{i-1} - a_{i}B_{n})B_{n}$$

$$\sum_{i=2}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{n}) - \sum_{i=1}^{n} (a_{i-1} - a_{i}B_{n})B_{n}$$

$$\sum_{i=2}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{n})B_{n}$$

$$\sum_{i=1}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{n})B_{n}$$

$$\sum_{i=1}^{n} a_{i}(B_{i} - B_{i-1}) = (a_{n}B_{n} - a_{i}B_{n})B_{n}$$

$$\sum_{i=1}^{n} a_{i}(B_{n} - B_{i}) = (a_{n}B_{n} - a_{i}B_{n})B_{n}$$

$$\sum_{i=1}^{n} a_{i}(B_{n} - B_{n}) = (a_{n}B_{n} - a_{i}B_{n})B_{n}$$

$$\sum_{i=1}^{n} a_{i}(B_{n} - A_{i}B_{n}) = (a_{n}B_{n} - a_{i}B_{n})B_{n}$$

$$\sum_{i=1}^{n} a_{i}(B_$$

Dox-bo: VEZO Juz Vnzne 15 buck 1 < 3M $\frac{1}{2} \sum_{k=1}^{100} k \cdot x^{k+1} \Big|_{X=\frac{1}{2}} = \frac{1}{2} \left(\sum_{k=1}^{100} x^{k} \right) \Big|_{X=\frac{1}{2}} = \frac{1}{2} \left(\frac{1 \cdot (1-x)^{4} \times 1}{(1-x)^{2}} \right) \Big|_{Y=\frac{1}{2}} = \frac{1}{2} \cdot \frac{1}{(1-x)^{2}} \Big|_{Z=\frac{1}{2}}$ II Cxogumocro pynkynon. nocneg.

If (x) $S_{n \in \mathbb{N}}$ $x \in E$ $S_{n \times \infty}$ $S_{n \times \infty}$ Onp: $f_n(x)$ exog. pabl. κ f(x) $(f_n(x) \Longrightarrow f(x)$ ha E), equ YERO JN=NE VN>NE YXEE Ifn(x)-f(x) / E Npunep1: | arety nx | $= \frac{T_2}{\sqrt{n}} < \xi = \frac{1}{2} n > \left(\frac{T}{2\xi}\right)^2$ Opumep 2: E = [0; 1) $f_n(x) = x^n$ $f_n(x) \xrightarrow{r} 0$ $f_n(x_n) \xrightarrow{r} 0$ $X_{n} = \frac{1}{n} \quad f_{n}(x) = \left(\frac{1}{n}\right)^{n} = \frac{1}{n} \quad \xrightarrow{n \to \infty} 0 - ne \quad \text{yragam} \quad -rpyeti, \quad \text{newarkko}$ $X_{n} = \sqrt{2} \quad \xrightarrow{n \to \infty} 1 \quad f_{n}(X_{n}) = \left(\frac{1}{\sqrt{2}}\right)^{n} = \frac{1}{2} \quad \xrightarrow{n \to \infty} 0 \quad - \quad \text{yragam}, \quad \text{xugn6}$

(Ipung 3:
$$f_n(x) = \frac{nx}{1 + n^2x^2}$$
 $E = (0; 2)$
 $f_n(x) = 0$
 $f_n(x) = \frac{1}{2}$
 $f_n(x) = \frac{1}{2}$
 $f_n(x) = \frac{1}{2}$
 $f_n(x) = \frac{1}{2}$