piatek, 3 listopada 2023 16

 $\lim_{n \to \infty} \left(\frac{x_{n+a} - d}{x_n - d} \right) = K \quad 0 < K < 1 \quad zbie z ność liniowe rzgol metody = 1.$

enta & K. en

 $24. \frac{1}{n^2} \rightarrow 0$ $e_n = x_n - x = x_n \quad \left(x_n = \theta_n = \frac{1}{n^2}\right).$

 $\lim_{n \to \infty} \frac{e_{n+1}}{e_n^2} = \lim_{n \to \infty} \frac{1}{n^2} \quad vzgd \neq 2$

Z8. Empiryerne suscowanie p (lin en+1)

 $ne = \frac{1}{100} \cdot \frac{1}{100} \cdot$

27. Dahlquist, Björck

(1) D= log | (xn+1-r)(xn-r)|
(1) D= log | (xn-r)(xn-r)|

en - > K . en - 2

 $e_{n+1} \approx k \cdot e_n^p \approx k \cdot (k \cdot e_{n-1}^p)^p = k^{p+1} \cdot e_{n-1}^p = k^{p+1}^p \cdot e_{n-1}^$

 $= K^{p+1} (K \cdot e_{n-2})^{p^2} = K^{p^2+p+1} \cdot e_{n-2}$

 $|x_n - d| = |x \cdot |x_{n-1} - d|^p |x_n -$

Z. 5 ×n+1 = E(xn)

E zalezy od metody

Zadovie f(x) = 0 $\underline{F}(x) = x$

 $\frac{\Phi(x_n)}{\Phi(x_n)} = \frac{\Phi(x_n)}{\Phi(x_n)} + \frac{\Phi$

Entr = E(p) (x) En promie Komiec