Bapuart 5 3agana 2 Rucenebor Kc. X 0.3 0,4 0,6 3 F(x) 1,04534 1.08104 1.18544 F(x)=ch(x) 38216117Mon2 1) $P_2(x) = 1,04534 \frac{(x-0,4)(x-0,6)}{(0,3-0,4)(0,3-0,6)} + 1,08107 \frac{(x-0,3)(x-0,6)}{(0,4-0,3)(0,4-0,6)} +$ + 1,12463 (0,6-0,3)(0,6-0,4) 2) $P(0,35) = 1.04534 \frac{0.051-0.251}{-0.160.3} + 1.08104 \frac{0.05(-0.251)}{0.1(-0.2)} + 1.12763 0.3.0.2$ ≈ -0,435558+0,645669-0,0469846=0,1331,84 3) $r_n(x) = \frac{\int_{-\infty}^{\infty} (\xi(x))}{(n+1)!} \cdot (x-x_0)(x-x_4) \dots (x-x_n)$ $V_2(x) = \frac{f''(\xi(x))}{6} (x-0,3)(x-0,4)(x-0,6) = \frac{sh(\xi(x))}{6} (x-0,3)(x-0,4)(x-0,6) = \frac{sh(\xi(x))}{6} (x-0,3)(x-0,4)(x-0,6)$ max neouzh Find Maximum (Wolfram) $\leq \frac{1}{6} \max_{[0,3],06]} | Sh(x) | \max_{[0,3],0,6]} (x-0,3)(x-0,4)(x-0,6) | \approx \frac{1}{6} Sh(0,6) \cdot 0,0063413 \approx$ ≈ 0,000 66 3685 ~ 6;6985.10-4 $P_n(x^*) = f(x^*) - P_n(x^*) - norpewh. unrepnonaugh Toukh$ $B\Pi(x^*) = P_n(x^*) - \widetilde{P_n}(x^*) - norpewn. вышисленьной в точке.$ BN(x) = (ch(0,3) - 1,04534) $\frac{(x-0,4)(x-0,6)}{0,03} + (ch(0,4)-1,08107) \frac{(x-0,3)(x-0,6)}{-0,02} +$ $+\left(\cosh(0,6)-1,18544\right)\frac{(x-0,3)(x-0,4)}{0,06} \leq 0,5\cdot10^{-5}\max_{[0,3;0,6]}|...|=0,5\cdot10^{-5}$ $O\Pi_n(x^*) = f(x) - \widehat{P}_n(x) = r_n(x^*) + B\Pi_n(x^*)$ On (x*) < 6,6985.1040,5.105 = 8,7485.104

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$$S = 0.5 \cdot 10^{-5}$$

$$r_4(x) = \frac{5^{\nu}}{5!} (x-1)(x-1,2)(x-1,4)(x-1,6)(x-1,8) = \frac{8x(-4x^4+20x^2-15)e^{-x^2}}{120}$$

• $\max_{\{1;1,8]} \{(x-1)(x-1,2)(x-1,4)(x-1,6)(x-1,8)\} \le \left(\frac{3,26407687}{40},0,00116206 \approx 3,493053\cdot 10^{-5}\right)$

 $0 \prod_{4}(x) \le 3,493053 \cdot 10^{-5} + 0,5 \cdot 10^{-5} = 4,293053 \cdot 10^{-5}$