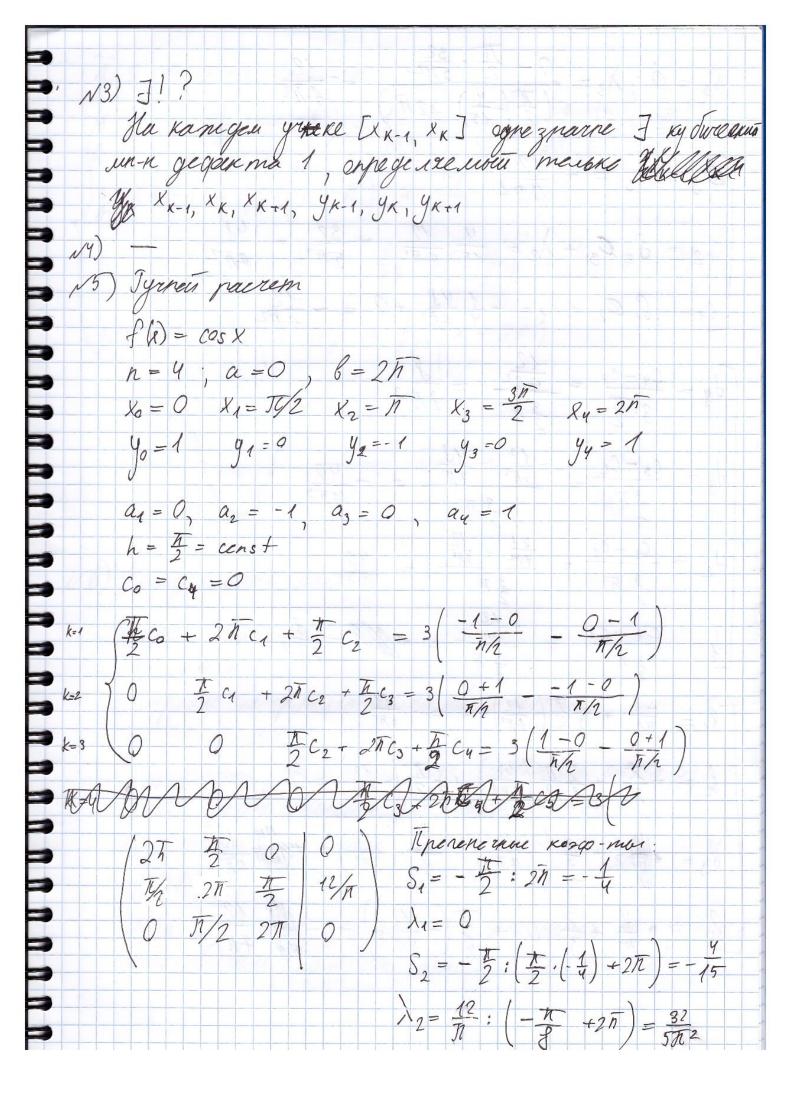
Opireme ne sadopamenneis pasome 13 "Unnepraixigua ecmeemberroum Ky de reckule conduitmen!" N1) No muncha zagaru Иктерремеровать задачира апаметическух до-уше e que emberense u ky d'aye exum consecurais na gly à censual (n/w d'ledjeuceboxan), gra baumo metremo unpupracióyeu que gloya cerren a maxmel merre and onere cumerone unmigneratione neclaration zabucule enu om kourlemba ggub 12) Lerepumu memoga Judure cruis conseine gegoerma 1 (econecularios) $g(x) = \int_{-\infty}^{\infty} g_{K}(x) = a_{K} + b_{K}(x - x_{K}) + c_{K}(x - x_{K})^{2} + J_{K}(x - x_{K})^{2}$ $x \in [x_{K-1}, x_{K}] \int_{K=1}^{\infty} a_{K}(x - x_{K})^{2}$ g''(a) = g''(b) = 0 $J_{K} = \frac{C_{K} - C_{K-1}}{3h_{K}}, h_{K} = X_{K} - X_{K-1}$ K=1, n bx = yx - yx + 2 hx Cx + 3 hx Cx-1 Co = 0 = Cn K=1,n-1 Pok CK-1 + 2 (hkm + hg) + hkm CK+1 = 3 (4km yk - 4k - yk - hkm) € Œ aue-ma permannen memegen nperenxu



$$S_{3} = 0 ; \lambda_{3} = \frac{0 - \frac{1}{2} \cdot \frac{32}{5\pi}}{\left(\frac{\pi}{2}(\frac{4}{15}) + 2\pi\right)} = \frac{12}{4\pi}$$

$$E_{3} = \lambda_{5} = -\frac{12}{4\pi^{2}}$$

$$C_{2} = S_{2}E_{3} + \lambda_{2} = \frac{4}{15} \cdot \frac{12}{4\pi} + \frac{32}{5\pi^{2}} - \frac{44}{4\pi^{2}}$$

$$C_{4} = S_{4}E_{2} + \lambda_{4} = -\frac{1}{4} \cdot \frac{43}{4\pi^{2}} + 0 = -\frac{12}{4\pi^{2}}$$

$$C_{4} = \frac{C_{4} - C_{3}}{3 \cdot \frac{\pi}{2}} = \frac{\frac{12}{2\pi^{2}}}{\frac{2\pi}{2}} = \frac{J}{2\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{12}{4\pi^{2}} + \frac{4\pi^{2}}{2\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{4\pi^{2}}{2\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{4\pi^{2}}{4\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{4\pi^{2}}{4\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{4\pi^{2}}{4\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{40}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} = \frac{4\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}}$$

$$\frac{3}{3} \cdot \frac{\pi}{2} = \frac{4\pi^{2}}{4\pi^{2}} = \frac{4\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}} = \frac{4\pi^{2}}{3\pi^{2}} = 0$$

$$8_{3} = \frac{2\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}} = 0$$

$$8_{3} = \frac{2\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}} = 0$$

$$8_{3} = \frac{2\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}} = 0$$

$$8_{3} = \frac{2\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}} = 0$$

$$8_{3} = \frac{2\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{4\pi^{2}} = 0$$

$$8_{3} = \frac{2\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{3\pi^{2}} = 0$$

$$8_{4} = \frac{2\pi^{2}}{4\pi^{2}} + \frac{2\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{3\pi^{2}} = \frac{4\pi^{2}}{$$

 $g(x) = -\frac{13}{4\pi^3} \left(x - \frac{\pi}{2} \right) - \frac{12}{4\pi^3} \left(x - \frac{\pi}{2} \right)^4 + \frac{3}{4\pi^3} \left(x + \frac{\pi}{2} \right)^6$ $g_2(x) = -1 + \frac{4g}{7\pi^2} \left(x - \overline{\eta} \right)^2 + \frac{4g}{7\pi^3} \left(x - \overline{\eta} \right)^3$ $g_3(x) = \frac{19}{4\pi} \left(x - \frac{3\pi}{2}\right)^2 - \frac{12}{4\pi^2} \left(x - \frac{3\pi}{2}\right)^2 - \frac{40}{4\pi^3} \left(x - \frac{3\pi}{2}\right)^2$ $g_4(x) = 1 - \frac{12}{4\pi} \left(x - 2\pi \right)^2 + \frac{3}{4\pi^3} \left(x - 2\pi \right)$ V 8) Kennperbasel Member 4- yuz: f(x) = cos(x) 1) Conpense unny nasanny na gbyx cenina x, omednama 2) Onnegerrene zaber anuscous max. anucku om zucia y quel, conjunce magain ounce ou gre your c unnepr. neurouse la spanne Thema unchegames uperpasi ue, rapuscurricu ucrass relience du Sucemen Num Py u Mat Plot lie

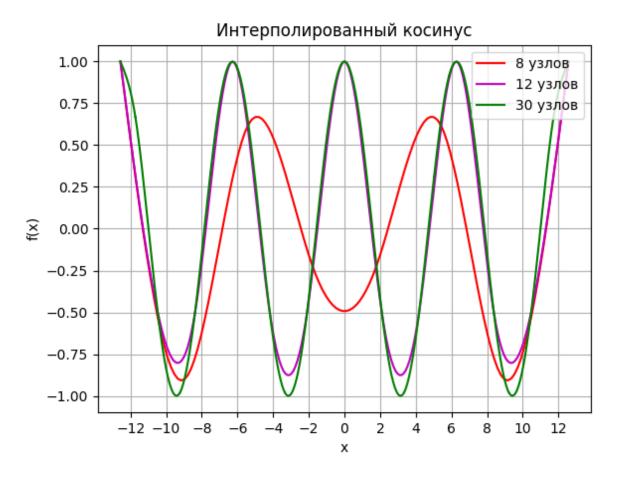
N7) Cnyyknejna nperparenbe splin. py = interpolation.splineInterpolation => splining. psy

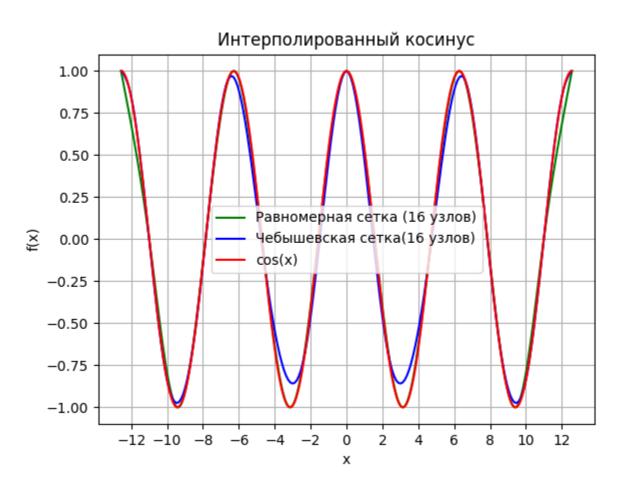
SPJep N > class spline 1) splin.py # acrobrai gouis, rge obseblera manya mare nyaira, функция f(x) и спроятья градоции Out: rpagouxu: f(x) g(x) pp - conserin na pfu camere
g(x) red - conserin na red. camere Error (n) - max. oumska om runia yzul 2) spline Interpolation Input: a, b, f(x), n, mun cenarie. # Ocnyreumen grazannas cemna 2) borzorbanner go-yur splining, boz bparyawyar waccul consumel 3) Dia ranegare x neugiarmen gracence y comben. onbyeyere consuma Out: maccubo X, y g unmerne merebanens is cp-yeur 3) splining Input! X; Y; - naccuber centu, n-rucue yzuel # cezquemea maccub consumed buga $a + b(x - x;) + c(x - x;)^2 + J(x - x;)^3$ Oppegersones Keryo-nu ci, b, c, d Output: splines - mucul comments

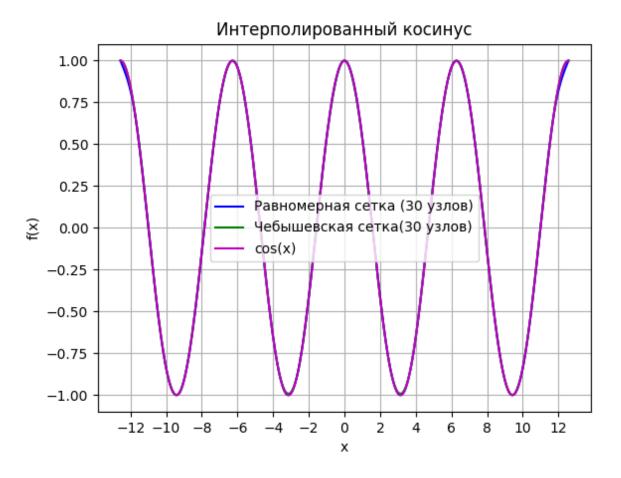
4) class Spline # Kracc oppegersen online ere naparemparen a, b, c, d, X, - nara se nyasienignice contaciona X = - Kerrey whenement Uneen surreg create, cez ganeryere care coneauxe cuch. 90-your padamor c'neuerauaeur numpy 5) SPdep N Input: fle a, b, mun cem re # go-yex borne cullen max oundry grx n E [5, 40] Output: E - maccub amuden N- macub mena yziel N8) Yuculennour analus Uzyrense nevy rekuse pezyromanse 1) Harring reparge synular CX - no omnecumentene namerica lasparenia: commen begen ceda dance me generageme ce mu doublemen ence guel raparnuperante gour alluone come usugge ca le ryero, rere нельзам сказамь о принами вагранна 2) B munico comacina anno cumerano unnepras x y me resurance largerna ne nere mue onu do sough burusumerany o curain one I impouned n menul ognero) Marga Omnaumerane Resure emba 43 sel pud ex garmen y be invenue morrame linniques -

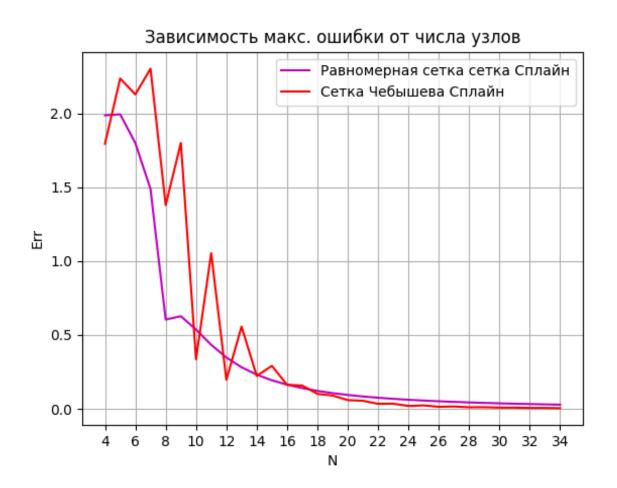
c 1 rucia 4 ziel (d) cempu, reenen. que cempu reбишева). Псих ими ими ге gir odeur cemen ouwdra ->0 you n Bolber B nad padome done accelegation delenco armyracia you 40- you Elmeinbergue des mecruses Consaines gegernia 1. No pezzyennamade accepebance economic egerano bubeg a care baceren memenu Gymennu ndegenia gancou unaprouse mos connecime ano nounaua largannia: nue boccorou plennemu yzul chraun nozbardem godumoca ozeno baconas mochemu интирполяции, не успен за эте. является беления bole. cuentre como anno cume umo unnegenaloumbe Largua nele Saw: nacknie concum om ecentiene, une & cupiel уктеррахуше чебишевсках серека не дает увештения merro com our publicupant (was anudha ger led cenina begen ce da remereno onje. Kan-ba y tueb

Графики









Зависимость макс. ошибки от числа узлов

