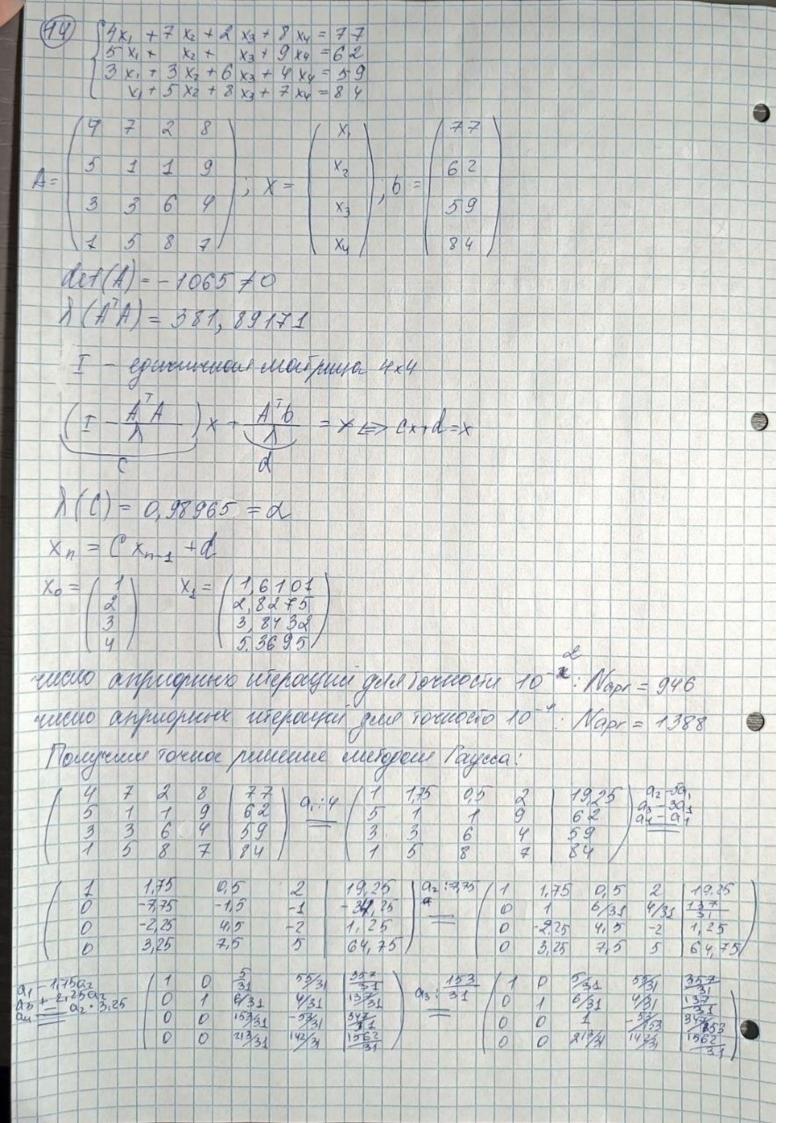
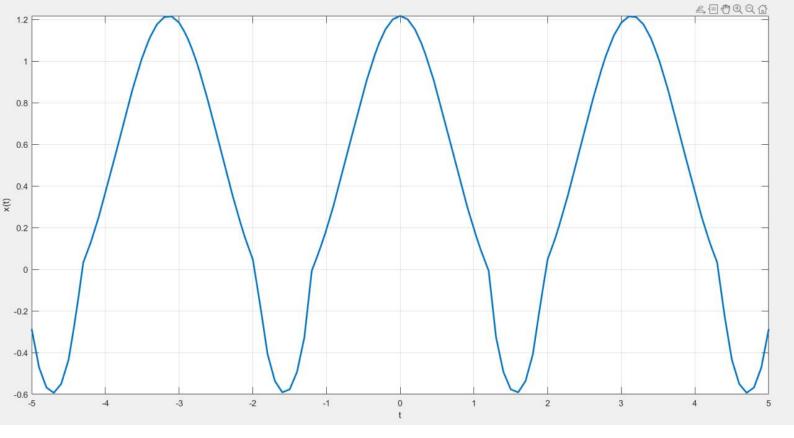
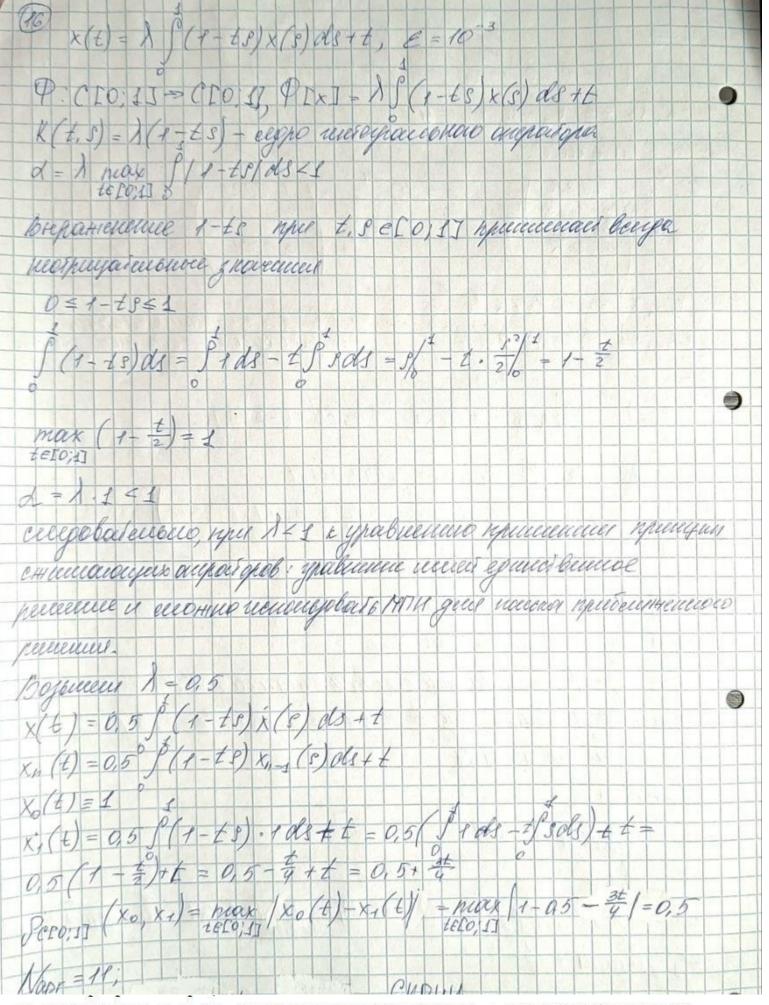
CHRESCEALGEGERE ORIENTATIONE U истор постеровачиномого прибостичений Bancacco 1 (3) x \31 + arctg(3x-2) = sin 2x 9(x) = x 13 - avolg (3x-2) - sin x =0 $\varphi'(x) = \sqrt{3} + \frac{3}{7 + (3x - 2)^2} - 2 \sin x \cos x$ $\varphi'(x) = \sqrt{3} + \frac{3}{7 + (3x - 2)^2} - \beta \sin 2x$ 0<1+(3x-2)2 <3, -1 < sin 2x <1 $0 < v \leq \varphi'(x) \leq \mu$ V = V3 + O - 1 = V3' - 1 M= \3+3+1= \3'+4 N3'-1≤4'(x)≤√3+4 $\times - \frac{\varphi(x)}{u} = x$ x - \(\frac{1}{3'} + \text{4} \left(\text{x} \cdot 3' + \arctg(3x - \alpha) - \(\text{pin} \cdot \text{x} \right) = \text{x} Xk = X x 1 - \frac{1}{3+4} (xk, \frac{3}{3} + arcfg(3xk, -2) - Pin xk) d=1-1=1-13-1 X = 0 Xs = 0 - 13+4 (013'-arcfg(3.0-2)-8in (0) $X_1 = 0, 19315$ Napr = [loga E (1-d)] +1 P(x0, Ks) = |x0-x1) = 10-0, 193151=0,19315 Napr = 89 Но при Угом прозошние поресованова всего 16 год доста Приближенное решение: x = 0.44545 Число итераций: 16 Число априорных итераций: 89



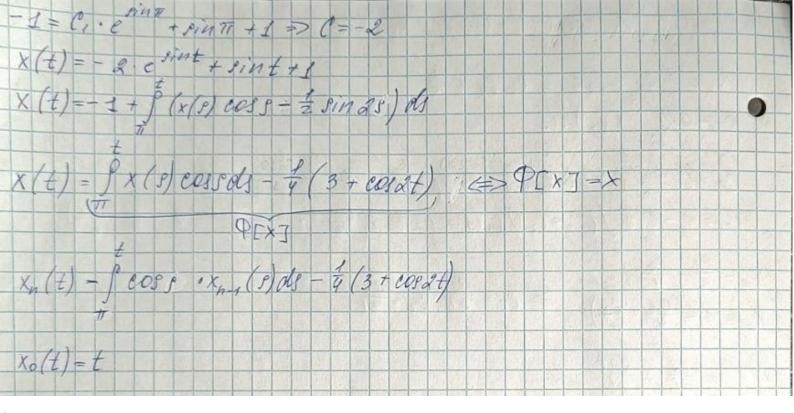
a - ay : 270 00 - 03 - 3 00 - 03 - 6/3/ 24 - 03 - 213 93+94.53 Ky = 2, X2 = 3, X3 = 4, X4 = 5 Houseun puncular E = 10-4. £ = 10 2: X38 = 3,9989 5,0052 P2 (X388, X) = 0,00997 × 10 => To cuesto apredent menurex peliceren P2 (K444, X) = 0,0000 99 < 10 -4 ecost es estyet kociabecennosi $x(t) = \frac{2}{1+|x(t)|} + \cos 2t$, [a; 6] = [-5; 5]P[x] = \psi(t, \lambda(t)), \psi(t, 4) = \frac{2}{e^{t+4}} + cos 2t p(t, u) uniperrebua na enconcerbe [-5;5] x[0; +00] | P'_u(t,u) | - 2 = 2 < 1 Pu (t, u) neupopulua gaux lock 1170 > ougratop P attacecacougue e constitucioca = = = Querer equencileanige nemopher rugio rocky x(x) 6 CT-5, 5 XII (t) = 0 HIXINGENT + COSSET xo(t) = +cos &t $X_{t}(t) = \frac{e}{2 + H\cos 2t} + \cos 2t$ $E = 10^{2}, X = \frac{e}{e}$ PCI-5155 (xo, xs) = max (xo(t) - x1(t)) = max /+ cosat - e1+1+4052+1 \$ cosat) Napr = 20 Moreceoux, gour janueces xo (t) no peopereu orace econoca eccesa, To 6 racecs be orbera noespaceur sprances



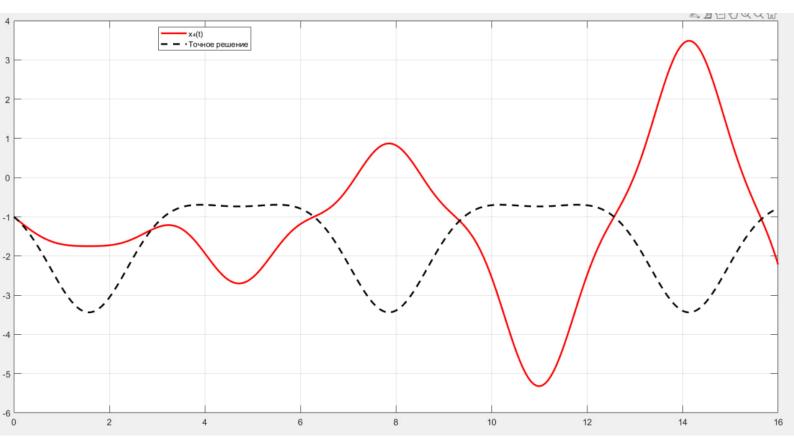


11 приближение: x_11(t)=(21304779169*t)/27518828544 + 1775452727/4586471424

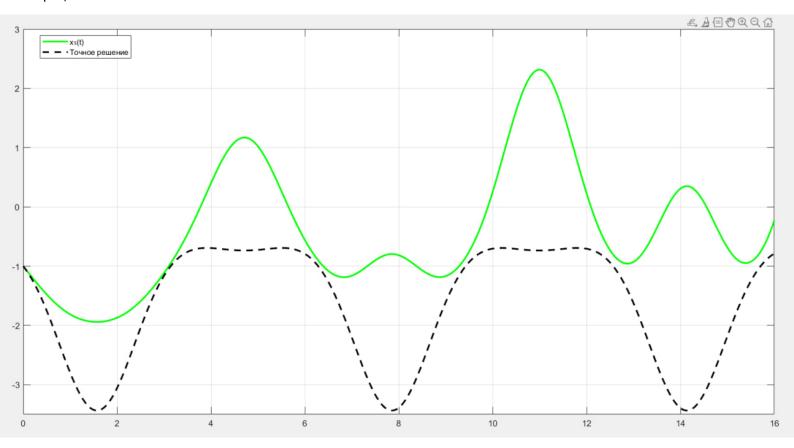
x(t) = 0,5 fx(s)ds + t-0,5t fx(s)ds X(t)= c1+ c2t, c1, c2 ER C1-0,5 Px(5) ols $C_1 = 0.5 \int (C_1 + C_2 t) ds = 0.5 (C_1 S + \frac{C_2 S^2}{2}) = \frac{C_1 + \frac{C_2}{2}}{4}$ $C_2 = 1 - 0.5 \int (C_1 + C_2 S) S dS = 9 - 0.5 (\frac{C_2 S^2}{2} + \frac{C_2 S^3}{3}) = 1 - (\frac{C_1}{4} + \frac{C_2}{6})$ (c2 = 1 - (c1 + c2) => c1 = 31; c2 = 31 X(t) = 12 + 24t ● Peron (x, x,) = 0,00001 < 10 3 => npudesur menare percence acongques Mechelle Herence Tornece 610. Order x 11(t)=(21304779169*t)/27518828544 + 1775452727/4586471424 17 x'=xcost- = sinxt, x(1)=-1 x - x cost = - 2 sinat x - x cost = 0 Pass - Scostale en/x/= sint+C xa= e sint . Ci Xe = e sint a xx = a' e fint a e int cost a e sint ra e sint cost - a e sint cost = - & sinzt a'c "int = - Exingt a = fint+1 => Xx = lint+1 Xou = Cre pint + Pint +1



4-я итерация:



5-я итерация:



6-я итерация:

