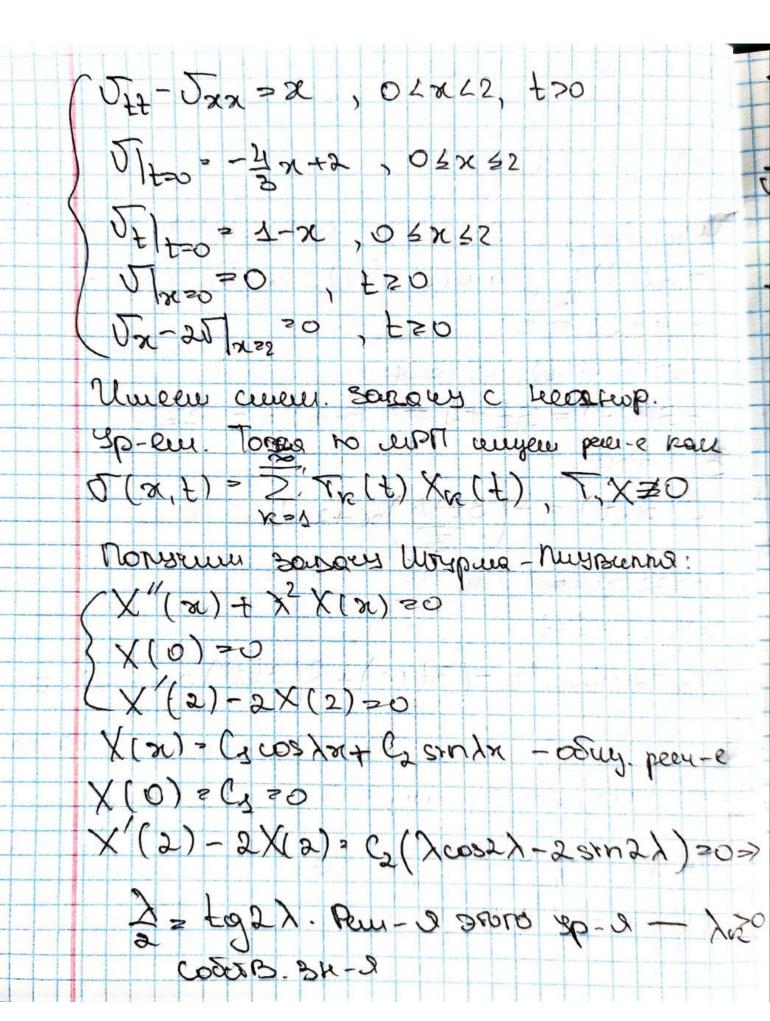
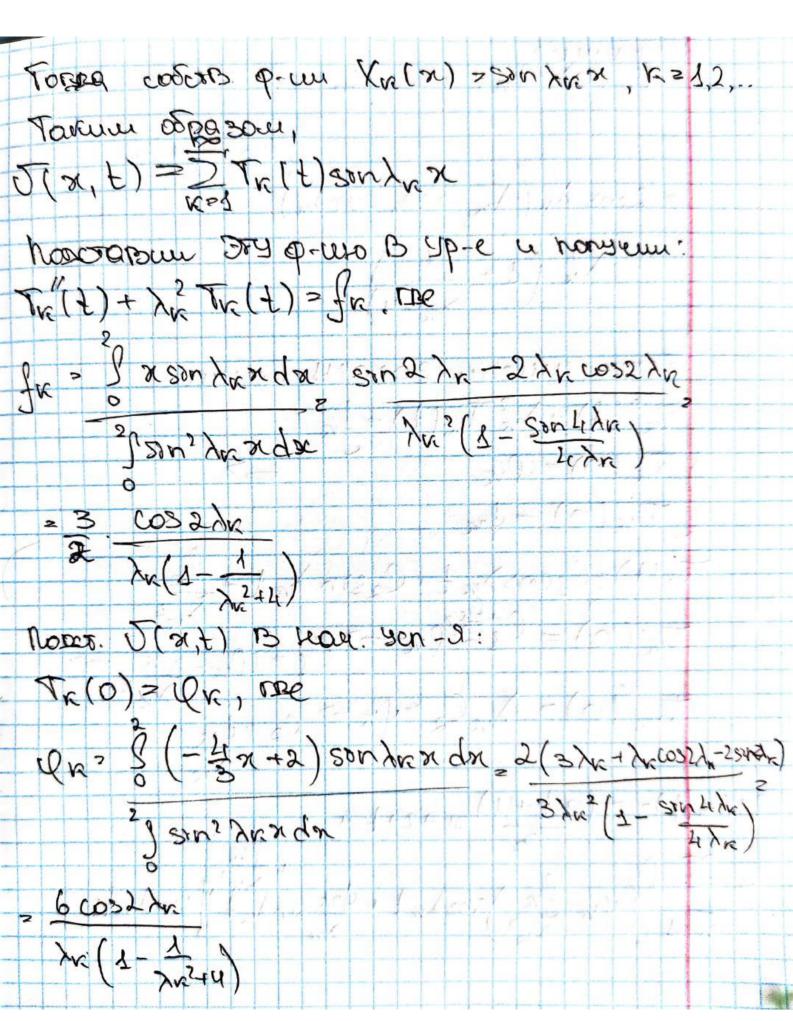
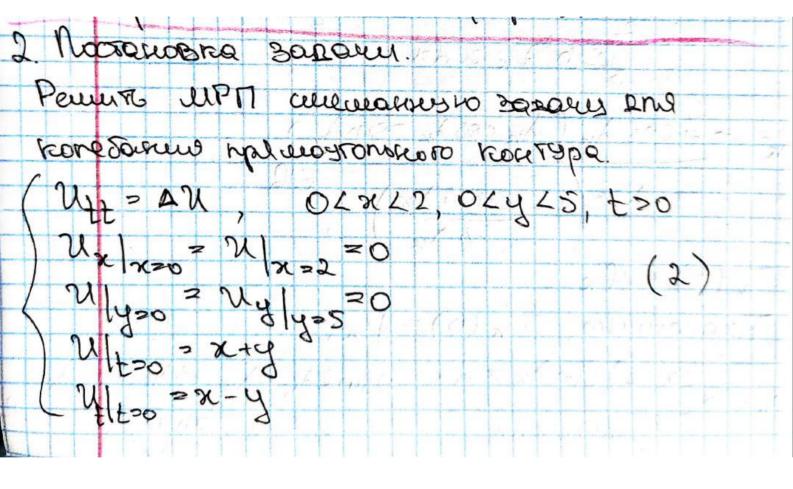
1. Nocrateorna zaparu Pennis sagary merosan possererus repenseers Utt - Uxx = x, 0 Lx L2, 270 W tro 0, 06x 62 Uil >0, 03x 62 U = 2+t, t≥0 /Ux-21/x=2 +, +20 Devil Hile: Mon Bedeu space years yenoracul is Oscopostevin. Ina 2000 augen penetere B Buse u(a,t) = D(n,t) + w(n,t), ree w(x,t) = a(t) x2+B(t) x+C(t), TRO a, b, c nonnemas orpesenemuso, pa 2004 (W/820=24t (wx - 2w/22, = }

noncroscul obeyend Bus w(= 1) B scn-0 4 hony we w/20 = c(t) = 2+t Wx-2w/2=2 2x a(t)+b(t)-2a(t)x2-2b(t)x--2c(t) | 2 4 - a(t) + 6(t) - 30(t) - 46(t)-- 4-2t = t. Nuscro a(1) 20, roaq -36(t) = 3t +4 => 6(t) = - 5t+4 B wore W(x,t) = -(3t+4)x+2+tNpo Bepum! W/x == = 21t W2-2w/2=2= -(3+41)+2(3+41).2+4-2+=+ Forme momen cocta vento Barrary c obreop. 170 yen. Ecru Wxx=0, wft=0 W = 2 -4 x+2 70 Wt/2 - 2 +1

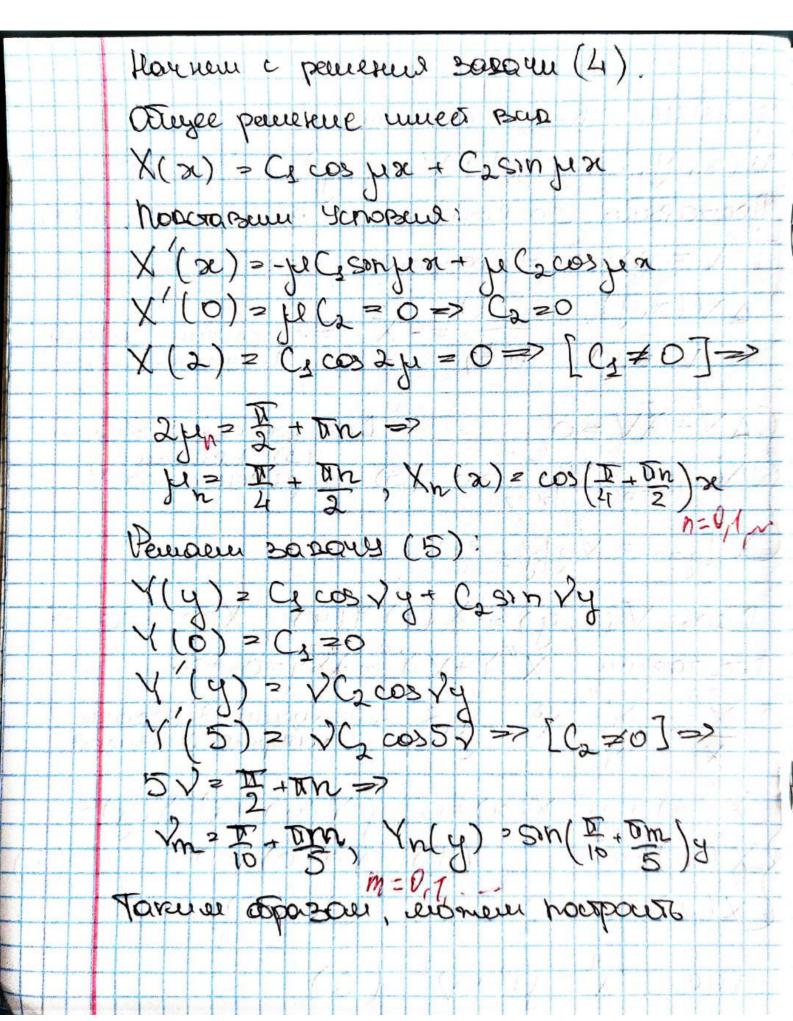




Duanarians Ti(0) = fr, rol fr = 3 (1-x) son he x dx Jeson pu xqu = 2005 Ax (hx cosh - 500 hx) 1 × (1 - 1) × (1) Torso uneen 3000 US Rouen! Tra (+) + ha Tra(+) = fra 1 1 (0) = Qx Tielt)=Cocos Int+Casin Int+ I'm 4n(10) = mc2=4n => c2=4n U(n,t)= -(3+44) x+2+t+ + Z [(4x fr) coshet + tresonhet] sonhet



Unelle cue manter so sonores e ophopoese. TRARWAR. 900. NO UPT muje un peuverence 13 pape. u(x, y, t) = 7(t) V (x, y), 7≠0, V≠0 Nopora Bure 300 Borpamerure B 4P-e 3aparu (2) TV= AVT => passenseu represente $\Delta V(x,y) = 7''(t) = -2$ => nonymum zopory V(x,y) = V(t) = -1 Wrypma-Nuybann (1) Dag peureseur 3000mm (3) Brenem (3) Brenem (3) Brenem (3) Braneme en 2 V: (V ly 20 = Vy 1925 =0 Myer V(x,y) = X(x) Y(y), X\$0, Y\$0 => Noncompany: X"Y+XY"-XXY=0=> X = - 1 2 = - 12 => nonyeum 2 30120 mis X = - 1 2 => nonyeum 2 30120 mis Bunna (5)The 2= 42+12 (6)



mm = (+ In) + (+ Im) 2 Vnm (x,y) = cos (I+ In) x sin (I+ Im) y Uz UPT y voce ranne noopoeko yposneme Trum (t) + Anm hm +20 Fro course penerene Thm(t) = Cnm cos 2nm t+ Cnm sh 2nmt Paren opposar un mamen nocipanto pemerne Ucxossoro gparseesem U(x, y, t) = 2 2 [Cnm cos 2nnt + Cnm sin 2nnt] COS (T + Dn) x sin (T + Dm) y , The 100300-11 us us rely hongaut us hoseranosan regranues Schobels 2 5 $C(2) = \int_{0}^{2} (x+y)\cos(\frac{1}{4}) \sin(\frac{1}{4}) \sin(\frac{1}{4}) \sin(\frac{1}{4}) \cos(\frac{1}{4}) \cos(\frac{1}$ 2 | Jeos 2 (T + Dn) x sin 2 (T + Dm) y docdy

Novembrose B Wolfram

= \frac{7}{2} \cos \left(\frac{1}{3} + \frac{1}{4} \right) \cos \left(\frac{1}{3} + \frac{1}

C(2) = 1.
$$\sqrt{(x+y)} \cos(\frac{\pi}{4}, \frac{\pi}{2}) \times \sin(\frac{\pi}{4}, \frac{\pi}{2}) y dxdy$$
 $\sqrt{(x+y)} \cos(\frac{\pi}{4}, \frac{\pi}{2}) \times \sin(\frac{\pi}{4}, \frac{\pi}{2}) y dxdy$

= $\frac{3}{2}\cos(\frac{2\pi}{4}, \frac{\pi}{2})\cos(\frac{\pi}{4}, \frac{2\pi}{4}) \csc(\frac{\pi}{10}, \frac{\pi}{2})$

Recurrance & alolgnam.