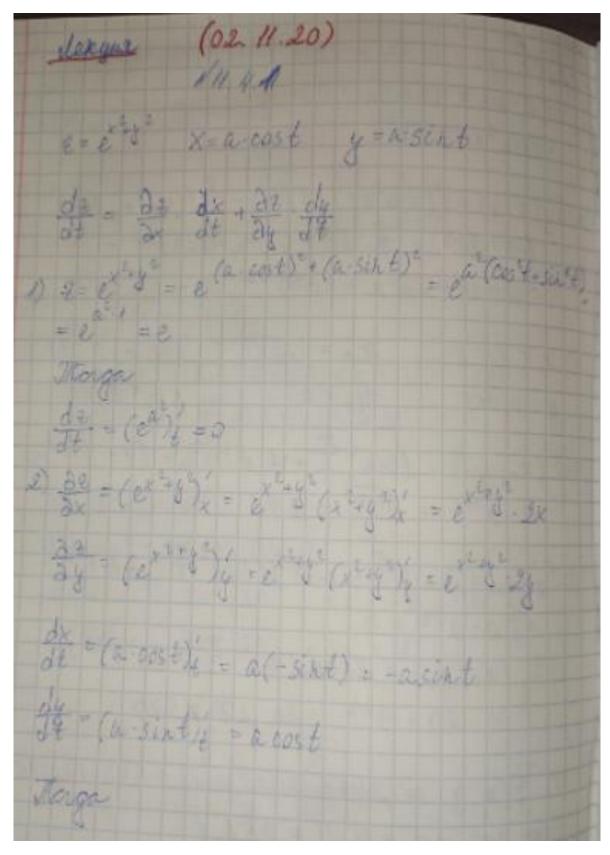
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Подгруппа 1



= 2xex sixt elacosti elacosti a cost = - 10 512 (2t) e (cos 4-sin) + 10 - sin(21) - e (cos 4-sin) = \$ \$11(21) & +03 Sin(21) & =0 N1142 1-x3-2x3-43 x-cos2t y= aretyt 1) 30 = (x3+2x3-y3) = 5x4+2y=0=5x42g 12 = (x5+2xy-6)/2 - 2x+34-1 de - (cos2+) = -50,2+ (1+) = -25ik2+ at (antgt); - Tet2 1 de = (5x1-24) (-25in 26) a (2x-342) 1+45 = -2(5+424) sch2+ (2x-58) 7+ E

2- xy + xg0 + yuv x. Int y - Int u - ct v = and t de - De dx - de du de de de 34 - x + x 10 + 4.0 34 = 40 BB = xy+yto 2) dx = cost dy + du et dv 1 3) da (8 30) cost + (x+x0+000) + + 30-et + + (xy+yw)(1+1+) = y(1+10)cost - x+xy+00 -40. et + 4(x+10)

2+3x-andge x-th y=uv 1 35 = (31 arclgy) = 32 th3 (x & creffy= 3 = (5x - 2 roles) + 3x 144+ 2) dx = xh = (4) = + 10 - x0 - (14) = - 100 1 = (av) / = 12 / = 19 = (his) = 4.1 = 12 3) 00 = 32 2x-las-antly & 12 + 3x 1-12 0 36 = 3x 2x les antes (tex) + 3 1+30 11

2= x x + u - 20 y - 24 + 0 0 ds - 32 dx + 32 dg dx = dx du - dx dv 1 = 38 da - 34 da 2) 32 - (x2) - 2x 32 - - x3 1) Ax = 1 dx -2 dy -2 dy dx = du - 2 chr dy = 2 du = do 1) dt = \$ (du + 2do) - x (2du = dv) = = \$2-(1- x)du - x(4 x)dv = = \$ (2(1- \$)da - (1- \$)da) = = 14-20 (2(1- 4-20)da-(4-4-20)do)

1 10 - 20 - 20 - 1 (2 (2000 - (4-20)du + (4 (20-4)-(420)do) = 10 x - 0) (2(4+30)dx + (04+20)de) 11144 g=x2+g2 +xy x - a sint y=acost de - 2 de = de - de de 1) 22 = (x2-42-x3) = 2x+4 34 = (x2+y2+xy) = 2y+x 2) dx = (asint) = acost # = (acost) = - a sent 3) de a cost (2x+4) - asin t(2y+x) = - a (1x+g) cost - a (2y+x) sint 2- cos (22 + 4x2 - 4) , x = t , g = tht

2 = cos(2t + 4x + y) x - t y the 1) 32 - - 50x (2+ 4x - y) - 8x 30 = - sin(2t + 4x2-y)(-1) = sin(2t+42-y) 2 = - six(26+4x2-4)2 2) dx - 1 dy - (17) End + if (Int) = 200 Cot - 15 to - 150 - 150 tht - 2t = 12th - 2 3) de = - sin (2++42-102-sis (2+=42-3)(-43) +562 (2+642-6) (Int-1) = -sin(2++x2-y)(2-3x-lxt-2)

-x=y=u x=t y=t= u=sint 1) de = 2xy u de - 3x y u de - 23 1) gt = 1 gt = 2t gu = cost 34 = 2x8 4 + 6x 9 2 4 + x 3 cost 2 = e38 lh(x+y) x = 13 y=1-63 00 to (1-t3) ln(t3+1-t3) = et3-t6 ln(&= xyarctg(xy) x=t+1 y=to 1 dx = (xy) arctg(xy) = xy (arctg(xy)) = yaroty(xy) + 1-252

By = xarely (xy) + Things 2) dx 2t dy 3t2 32 - (yantgag) - 2 1/2)2t + (xantgag) - 1-1/2 1) 32 - 2x - 3 - 2 - 34 - 2x - 34 (-3) 2) dx - 1 dy - 26-1 3) da - ex-3 (26-1) N.11.4.10 t=x8 x-lat y=sint 1) da = 4x8-1 da x8 lnx 2) dt = + dy + cost

8) dt - yxxx + xxtnx cost