

Taller metodos 200 litros dous 30g Sal in 44/min 19/L 2 L/Min A(2)=? 9 sal en a) dx = Vici - Vicz CZ = X +(V1-V2)+ $\frac{dx}{dt} = V_1 C_1 - V_2 X Q + (V_1 - V_2)^{\frac{1}{2}}$ $\frac{dx}{dt} + \frac{2}{200 + (4-2) + 2} X = 4(1)$ $\frac{dx}{dt} + \frac{2}{2(100 + t)} X = 4$ dx + (100+t) = 4 FI = e 100+++ (++) ()= 100 ++ es = en = 100+6 $\frac{d+}{dx} + (100++) \frac{1100++}{x} = (100++)(4)$ (100+ t) dx + x = (100 + t) 4 100+t dx dt + 1xdt (100+t)x+x+ (100+t+t)x-100+2+1x

GE [(100+2+)x] = (100++)4 76 (100+8+)x =4(100+4) dt (100+2+)X = 4 (400+ + + + +C) $X(t) = 4(100 + + t^2 + c)$ 100 + 2 + XE) = 400 = + 2+2 + 440 100 +2 = $X(2) = 400(2) + 2(2)^{2} + 440 = 12$ 100 + 2(2) X(5)= 400(5)+2(5)2+440 = 22,6 Tout 2(5)

du = Rin - Pout Rin - (0,06%). (2000 ft 3/min) = 1,2 ft/min Pout = (Van) (2000 ft /min) = Jan ft 3/min $\frac{dv}{dt} = 1,2 - \frac{1}{4} = \frac{1}{4$ Uro) = 0,2% x 8000 ft3 = 16 f't3 V= 1,2 - 1/2

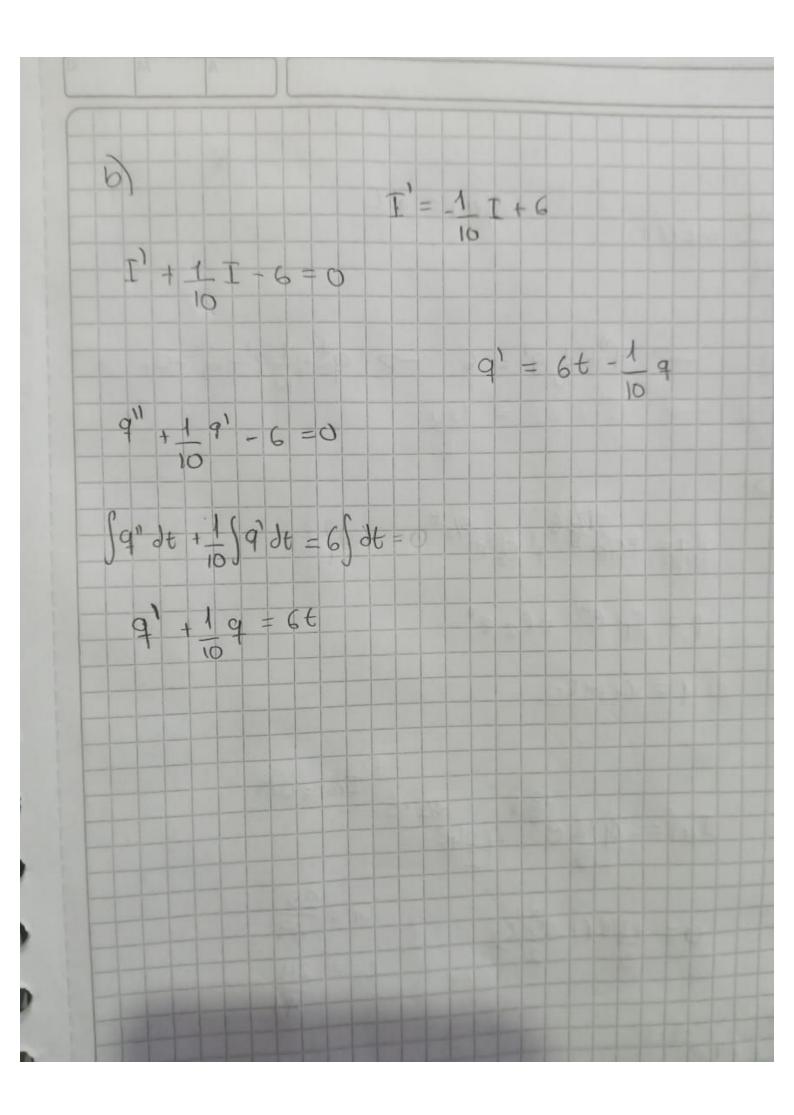
 NVIDIA® GeForce® MX130 with 2 GB VRA * 24GB Memory, 16GB Intel® Opt • 1000 GIT HOD dx1 = -0,1 x1 x2 X,(0) = 10 JX2 Jt = × (10)=15 $\frac{\partial X}{\partial x} = f(x_1, x_2, t)$ 1x, = g(x,, x,+) K .. hf (x, Kot) 7, + hg (x, x++) Kz= h+(x+ + 1 , x+ + 2 , + + 1) 2,= hg(x+ x1 , x2 + 1) + + + 1) K3 = hf(x,+x, x,+1,++1) 13 = hg(x,+1,x,+1,++1) Ky= hf(x,+ x3, x2+ 13 y ++ h) 24 = hg(x,+ K3, x2+ 73 9 ++ h) x(++h) = x(0) + } (K+2x++2x5 + x4) x2(++h) = x6(+)+ = (1,+2)2+273+74) Gararian las fuerzas con vencionales

a) inv(A) x 8°

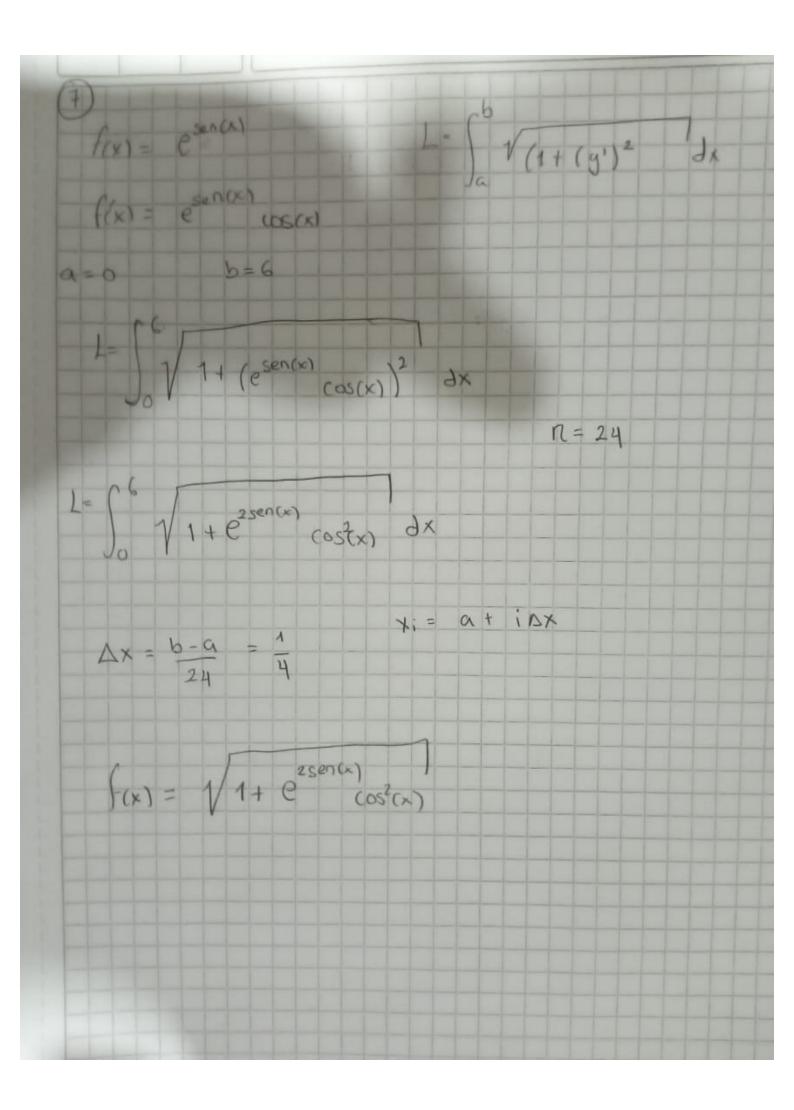
a) a) (A) x inv(B)

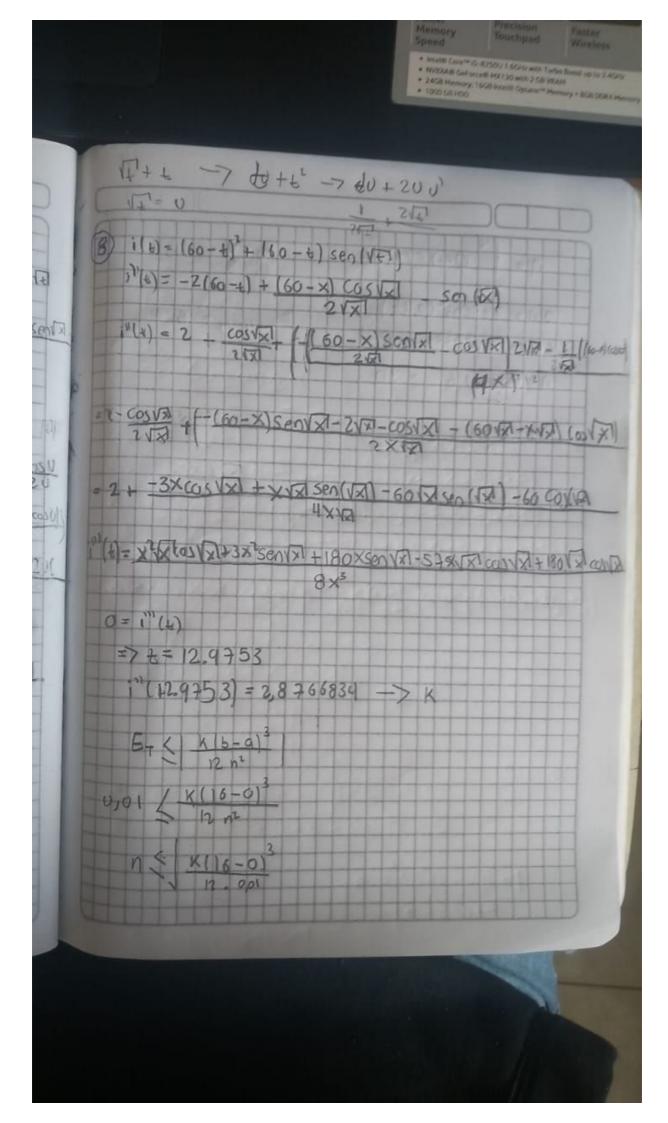
Souther (S)
$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{$$

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F(X) = - 5 IN(2x +1) FIII(x)= -5(2x2+1)+5x(4x) 2 atchar(V2'x) -5 Frel = -1,66 ... 0 = - 10x2-5 + 20x2 0 = 10x2 - 5 X= 15/16 1 2 0,707 F (0,707) = 1,76 + K $E_T = K (b-a)^2$ $N = |K (b-a)^2|$ $|2 E_T|$ $N = \sqrt{\frac{1}{176} \left(\frac{2 - 0.1)^3}{12 \left(\frac{1 \times 10^{-2}}{1}\right)}} = 10$ Ax= 2-0,1= 0,19 - 13,98 - 38,75 - 38,75 - 75,68 - 88,121 - 97,197 - 105,6 - 1117 - 121,4 - 125,1 XX $\frac{019}{2}(-13192 + 2(-815195) - 125,1) = \int_{011}^{2} F(x) dx$ $\int_{011}^{2} x dx = -1,66...$





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@ 511 (1th)+ = + + 1th) dt
   So13 FOI 0 = 0,29088
F(t)= - 1 24 In(t)+ 7 24 + 2 22
F(t) = -4+3 Int - 4 .1 + 7+3 + +
F(t)= -4 +3 In(t) + 4 +3 + +
FILE) = - 4±2 In(t) - 4±2 + 4±2 + 7
FILE) = - 4±2 In(t) + 1
FII(t) = -8+ In(t) - 4+
 F111(2) = 0
       0 = -8 ± (In(t)) - 4t
       t = 0,6065
F" (0,6065) = 1,7357 ->K
      M = K(b-9)3
       n = V 1,7357 (1,1-0,3)37 = 19,24 = 20
             12 (2×10-4)
 1x = 1,1-0,3 = 0,04
    01049
 5 = 9,04 [0,049 +2 (7,09) +0,8431] = 0,2998
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