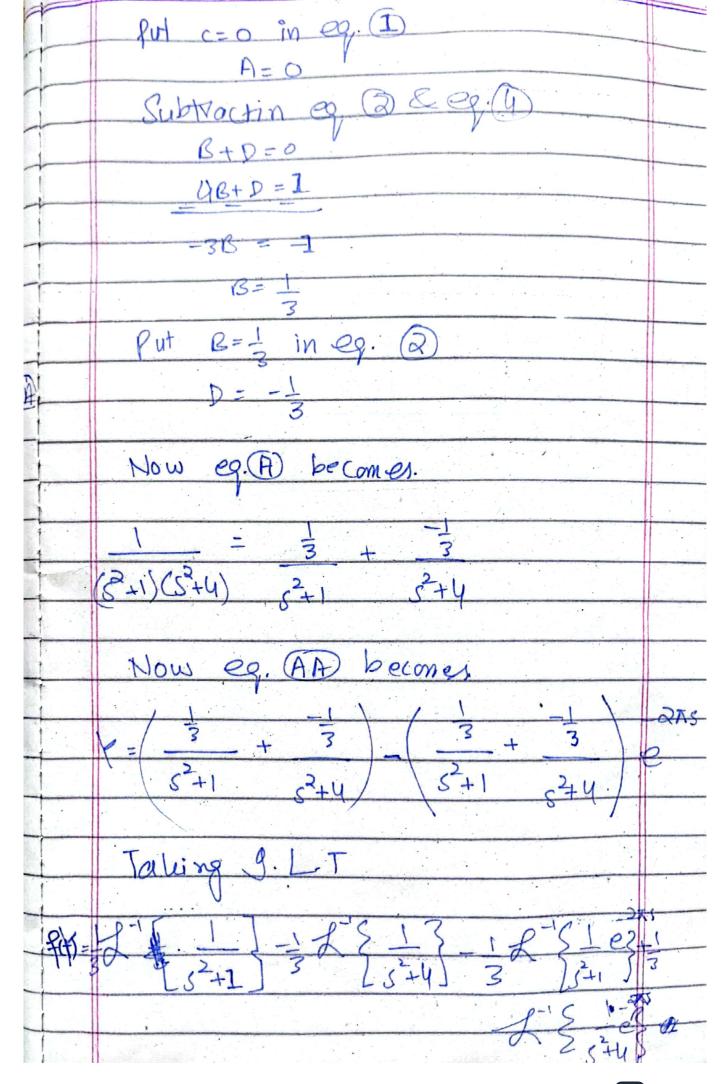


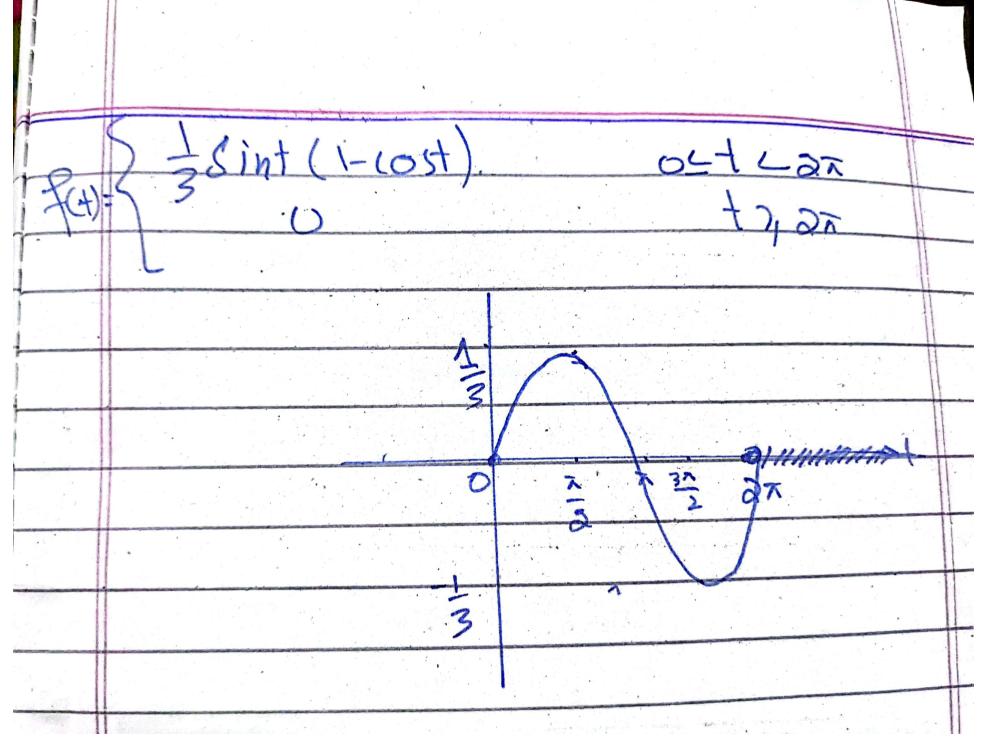


7(0)-0, /(0)=0 3. y + 4y = sint - Uax(+) sin(t-ax)

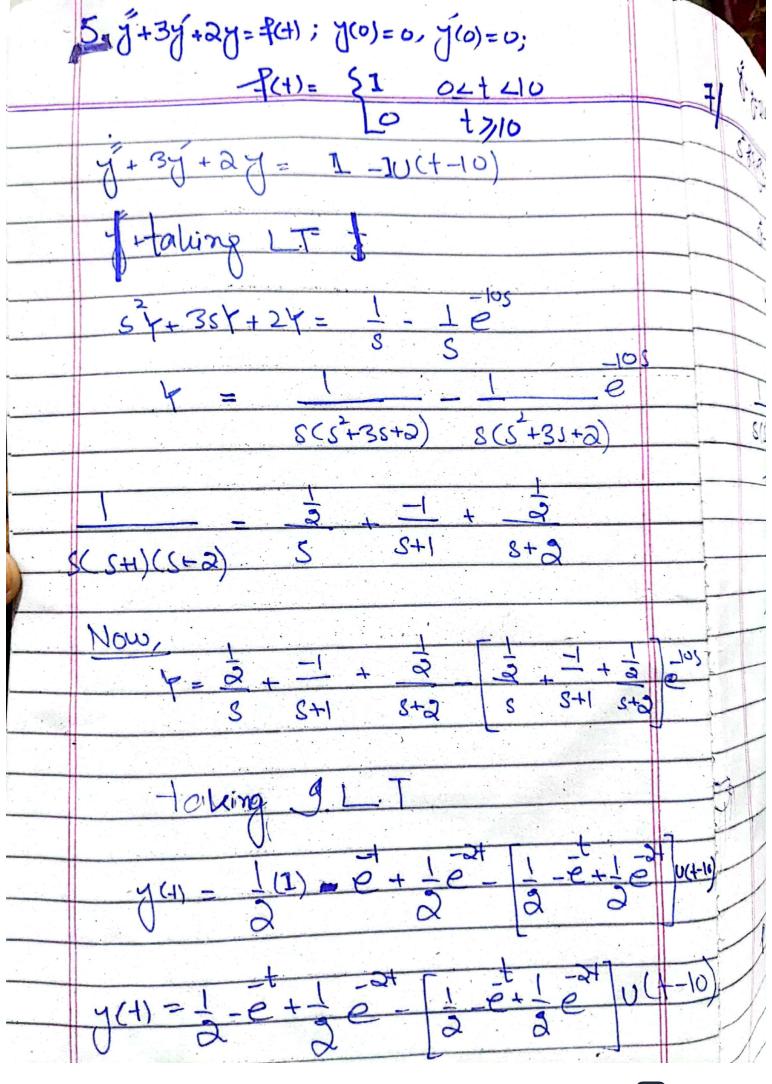
S 2543-54(0) - F(0) + 42543 = £5sint3-(+-ax) (F-DX) -275 (52+1) (5+4) (52+1) (5+4) = AG+B CS+D +2 (N+2)(1+2) 1 = (As+13)(5+4)+ (E8+D)(5+1) 1 = AS + 4AS+ BS+4B+ C3 + CS+DS+P 1 = AS+CS+BS+DS+4AS+CS+4B+D A+C=0 -(1) B+D = 0 -(2) 4A+C= 0-3 4R+D=1 9 Put A = - cin egs 4(-0)+0=0 -4C+C=0 -36=0



P(+)= 1 Sint -1 Sin(+=213) U(+=213) +1 Sight-an out an Y= Sint-1 Sinat Sint-ax Sin(+-Da) = Sint (0) 21 - (ast Sinan = Sint 1= 38int - 1 Sind - 1. Sint U(+-27 :. Sin(+-2x) = Sint (O) 2x - COS + SINQ x = Sin+ :. Ina (t-ax) = Sinat 14= 3 Sint - 1 Sina+ - 1 Sint UC+37) + 1 Sina+ U(+3) 10x= = Sint - Sinat - 1 Sint U (+-2x) + 1 a sint cost U 1)= 1 Sint - La Sintacost - 1 Sint U (+-2x) + talit (0st U (+ax) 1 = 3 Sint (1 - cost) - 1 Sint (1-cost) W(+ 12x)







y" y= 1U(+-3x) ; y(0)=1, y(0)=0 5 8 8 y3 - sy(0) - y(0) + d 8 y3 = 1 = 35 SY-S+Y= 1 = 311 $Y = \frac{1}{S(s^2+1)} = \frac{3\pi s}{S^2+1}$ S S+1 7(4) = 1 ; 7(4-T) = 1 g(+) = Sint ; g(T) = SinT RH)= (SINT dT = |-cost | + $A(t) = -\cos t + 1$ Now eq. (1) becomestaking J.L.T 1 y(+) = 1-101(+-3x) U(+-3x) + Cort

