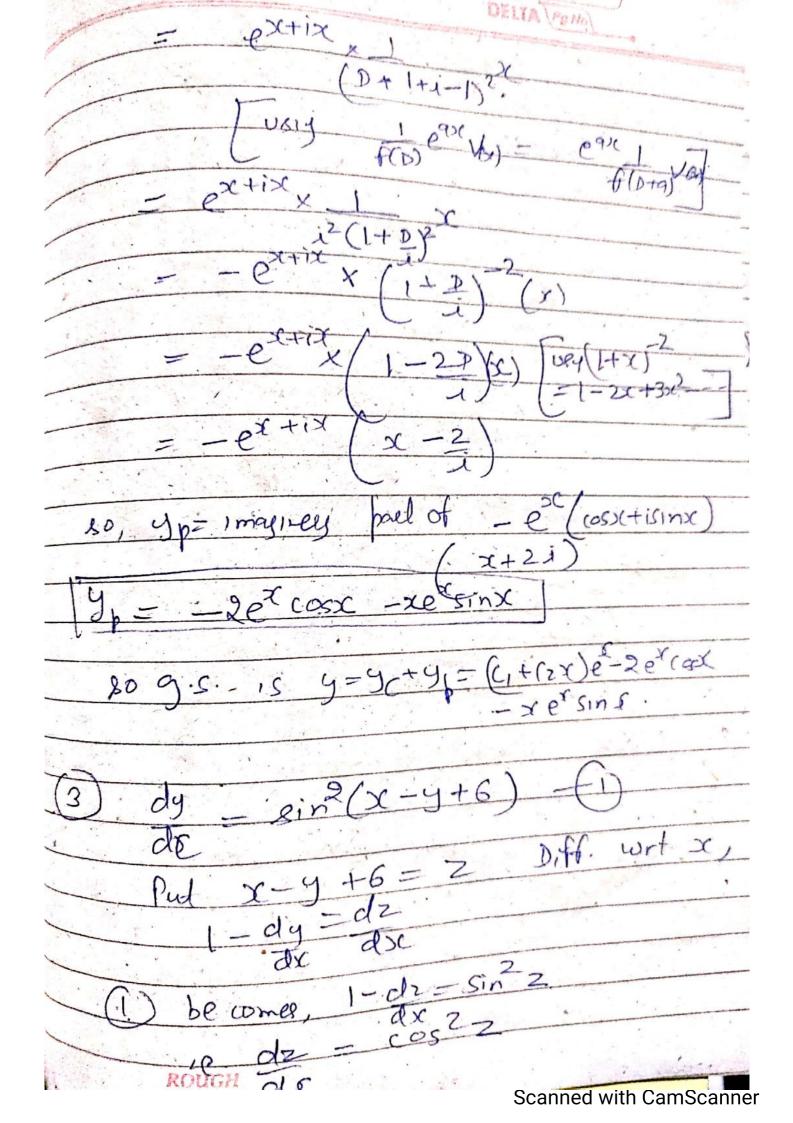
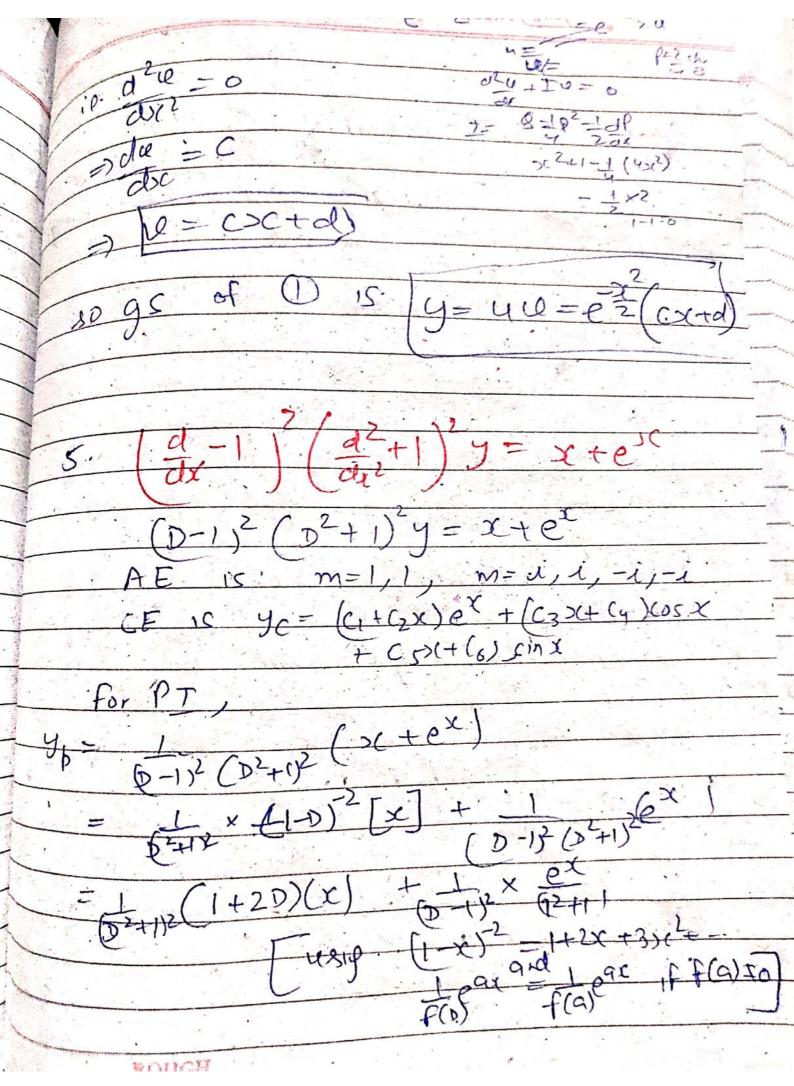


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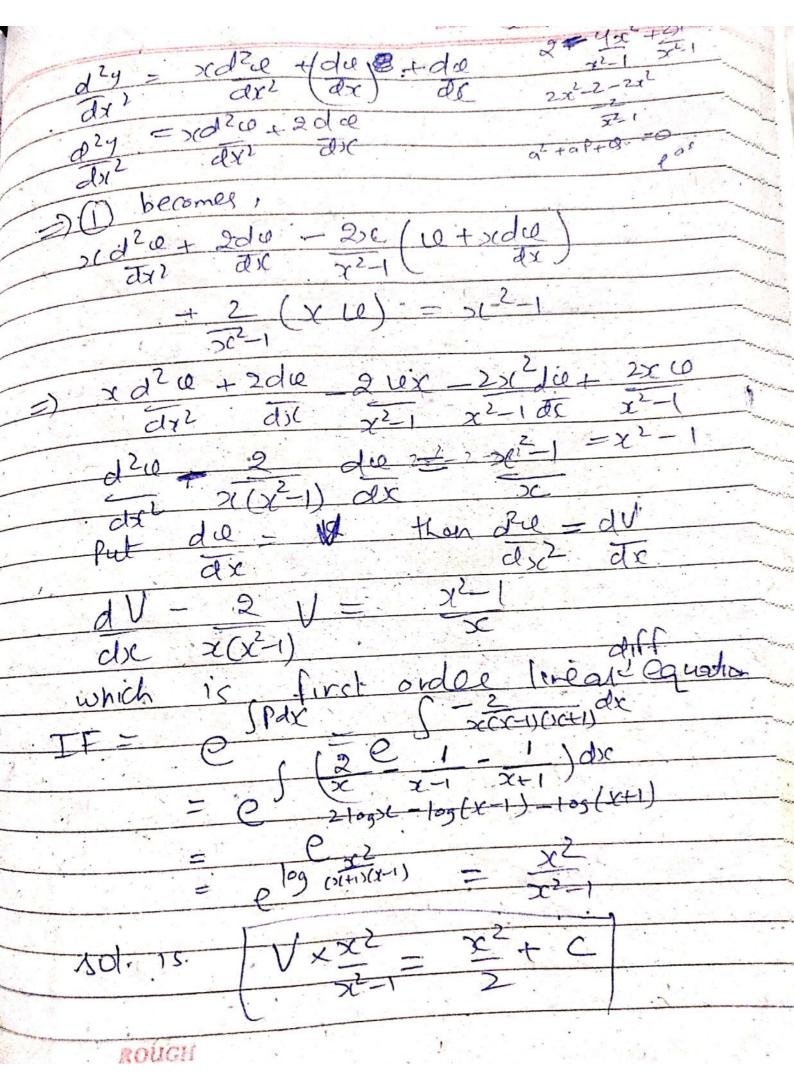


both sides we Integrating 10. [ tan (x-4+6)=x+c 22y +2xdy + (x2+1 compasing with standard 2nd order equation: dry + Placed and in dey + Place dy + 8(x)y=R(x) P(x) = 2x; Q(x)-Then by replacing dependent walrable elimination first order y= use be the solution transforme dP-202+1-1(9x2)-1e2=0

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= (0411)2 (x+2) + = 1 x x 2 ex very (2-9) = 1 = (1=202+3040-)(x+2)+ 2/e 20+2 + x2ec 40 35 15 4=4549= (1+(2)()ext(4)(0)x +(cxx+4)cinx +(x+2)+xex Using MUP -> Method of valuation of palameter. ) dy -2x dy +2y= - 2x dg +2 y - C Compaging with standard and order ary + Phody + g(x)y = R(x) p(y) = -2x, q(y) = 2,  $p(y) = x^2 - 1$ Since P(11) + x Q(x)=0 80, y= x 1s a solution So let 11-2 11 m(m-1)+mlx+9 u=x, the let y= 41l be the go of Then replacy dependent variable and 4= xcle -> d9 = xdo Scanned with CamScanner



Replacing U by die wo sel  $de = \frac{32 \times 32^{2} - 1 + C \times 2^{2} - 1}{2 \times 2^{2}}$   $de = \frac{32 \times 32^{2} - 1 + C \times 2^{2} - 1}{2 \times 2^{2}}$   $de = \frac{32 \times 32^{2} - 1 + C \times 2^{2}}{2 \times 2^{2}}$   $Integration both sides we get
<math display="block">1e = \frac{32 - 32 + C \times 4}{6 \times 2}$   $1e = \frac{32 - 32 + C \times 4}{6 \times 2}$