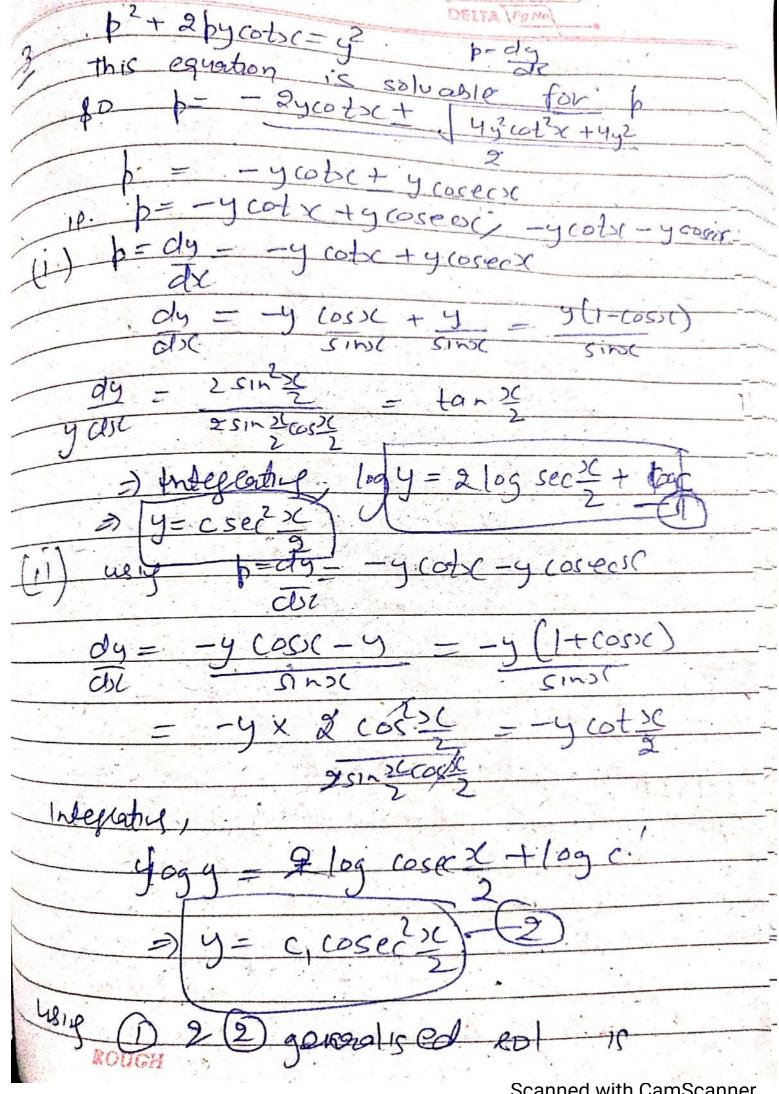
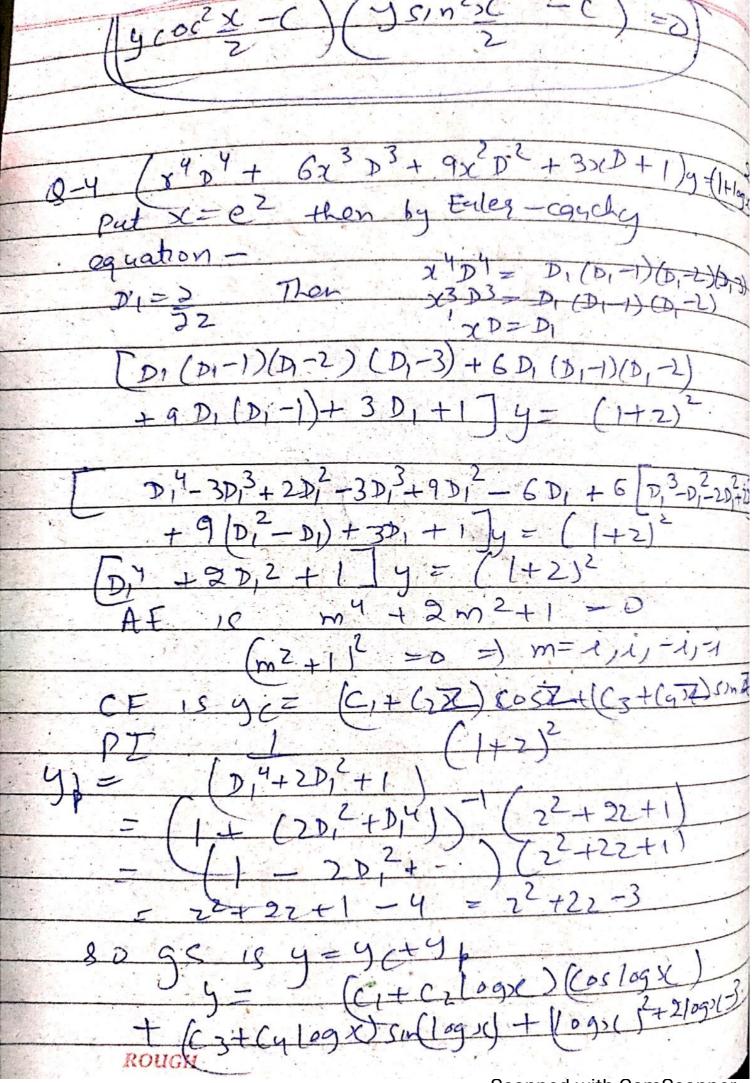
2011 1FOS DELTI Family of curves whose tangents form an angle IT slobe of hyperbolas xy=c is let slope of desired family of curves be m, then angle b/w them is given by-II, m2= - C we get, =) - m1 + C = x2 - m1C x - 2cx 1 tan 1 x + G2

Sc Sc Ve

putty scy=("we get"

2 pay tan for + tanx dy + comparing with standard 2nd ordo = secx rans forms >(+ C,>(+C) e isecx CIDE SECX + CLE





(DY+D2+1) y= ax2 + be-xsin2x solve m2+1-13/2/2/2/=0 2+1-13;-0, m2+1-0 13;0 i(-53+idn) m=+i $=+\left(-\frac{\sqrt{3}}{2},-\frac{1}{2}\right), m-+\frac{1}{\sqrt{3}}$ 9 C= e 2 [CICOS J3x + G51~ J3x + e = x [Cz cos J3x + Cg sin J3x 19p= 19+02+1 (ast + be 51n = (1+ (D2+D4)) (9)C) (SE

