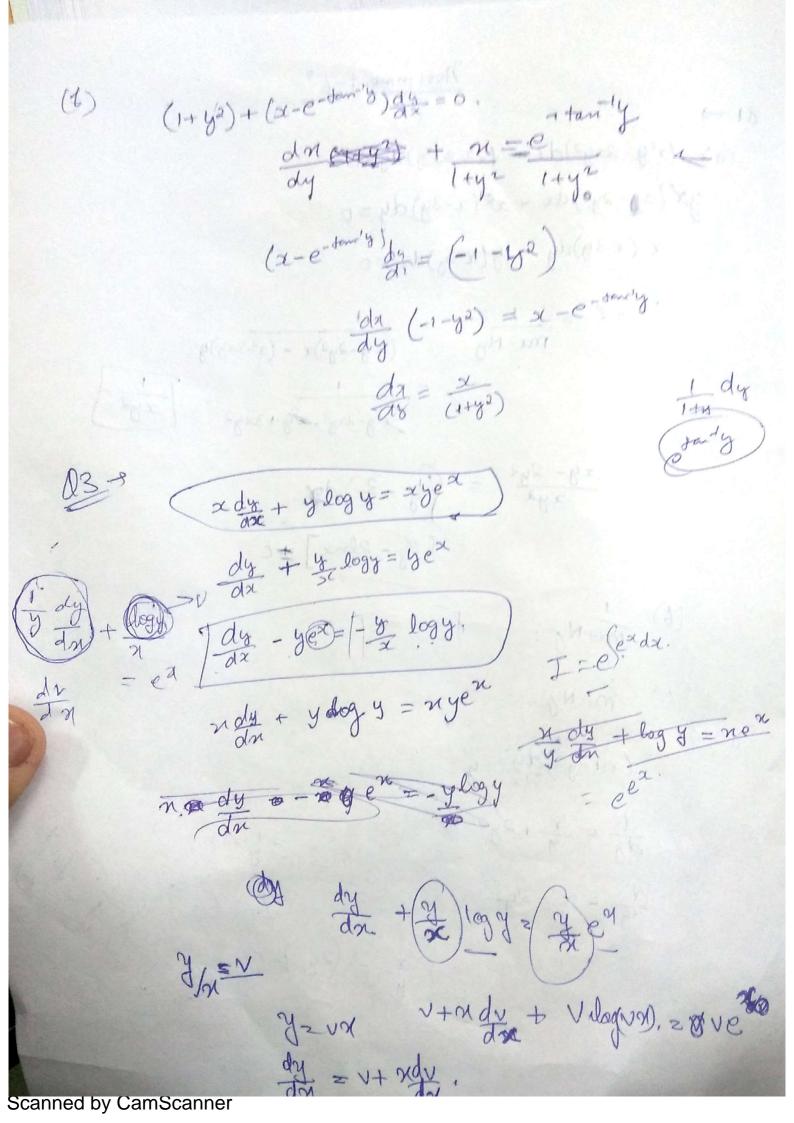
anchy-Schwarz in "Assignment-6" a1 -> (a) $(x^2y - 2xy^2)dx = (x^3 - 3x^2y)dy = 0$ yx (x1-24) dx - x2 (x-34) dy = 0 x (x3y)dy - y(x=2y)dx =0 $TX = \frac{1}{mx - Ny} = \frac{1}{(xy - 2y^2)x - (x^2 - 3xy)y}$ = = (xy2 = (xy2 = (xy2 . $\frac{\chi y - 2y^2}{\chi y^2} = \left(\frac{1}{y} - \frac{3}{2}\right) dy.$ = [2g-2lnx] =c - Alest 20 - 2. 26 - 2.0 (6) mathy. (c) many. (x+2y3) dy = y. $\frac{dx}{dx} = \frac{x}{y} + 2y^2.$ dr - 2 = 242. $\frac{x}{y} = \begin{cases} 2y + C = 6 \end{cases}$ Whs (bujout + ubn+v



Secry dix +
$$\frac{1}{x}$$
 Sind $y = x^2 \cos y$

Secry dix + $\frac{1}{x}$ Sind $y = x^2$

Secry dix + $\frac{1}{2}$ Somy = x^2

$$\frac{dv}{dx} + \frac{2}{x} \cos y = x^2$$

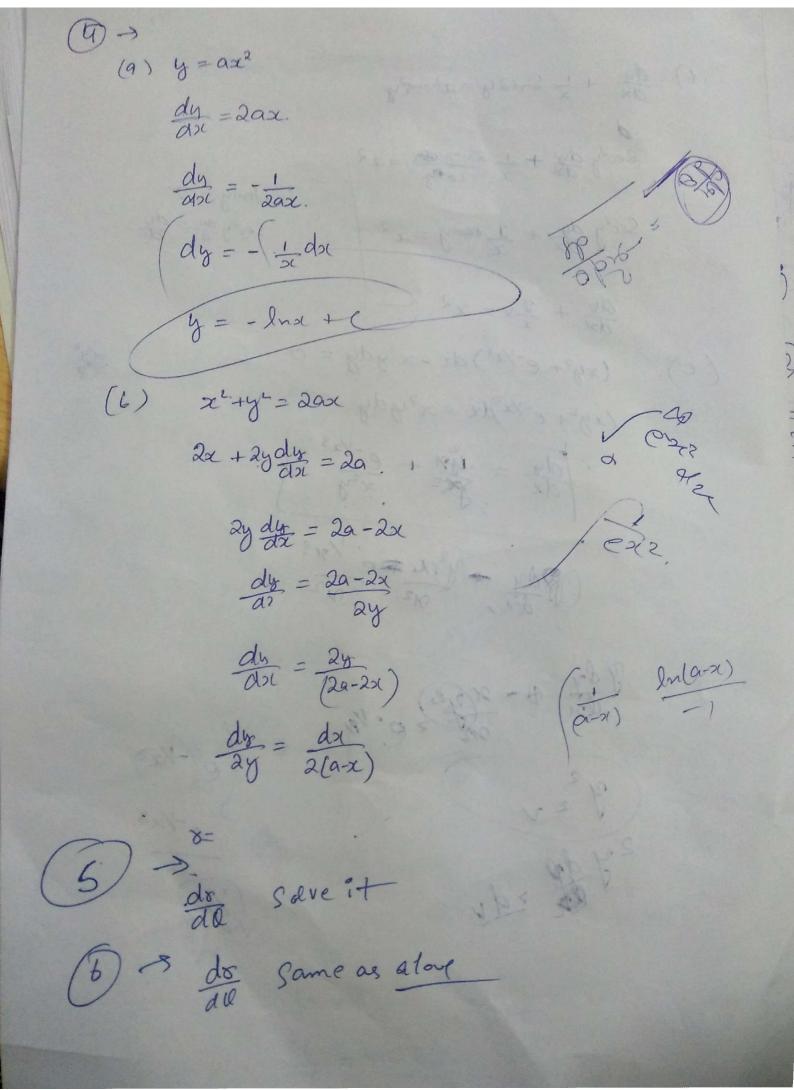
$$\frac{dv}{dx} + \frac{2}{x} v = x^2$$

$$(xy^2 + e^{-1/2^3}) dx - x^2y dy = 0$$

$$(xy^2 + e^{-1/2^3}) dx = x^2y dy$$

$$\frac{dv}{dx} = \frac{1}{2} \frac{1}{2}$$

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