Assignment # 01
9: Form the differential equation
(i) ACOSX + BSINX
91. From the differential equation (i) $Acosx + Bsinx$ (ii) $y^2 = Ax^2 + Bx + C$
Ber Solve the following first order
B2. Solve the following first order differential equations
(i) $dy = \chi(2\log\chi + 1)$
dr siny + 4cosy
(ii) $\cos(x+y)dy = dx$
$\frac{dx}{\sin x} = \frac{\sin x}{\sin x} + \frac{\sin x}{\sin x} + \frac{\sin x}{\sin x} = \frac{\sin x}{\sin x} + \frac{\sin x}{\sin x} = \frac{\sin x}{\sin x} + \frac{\cos x}{\sin x} = \frac{\sin x}{\sin x} + \frac{\cos x}{\sin x} = \frac{\cos x}{\sin x} = \frac{\cos x}{\sin x} + \frac{\cos x}{\sin x} = \frac$
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(iv) $(x^2 + 3xy + y^2) dx - x^2 dy = 0$ (v) $dy = -\frac{4x + 3y + 15}{2}$
(V) dy = -4x + 3y + 15
dx $2x+y+1$
(Vi) (2xycos'x'-2xy+1)dx+(sinx'-x'+3)dy=0
(vii) $e^{x}dx + (e^{x}cdy + 2ycscy)dy = 0$
(Viii) $(\chi^3 - \chi) dy - (3\chi^2 - 1)y = \chi^5 - 2\chi^3 + \chi$
d^2
$(ix) dy - tany = (1+x)e^x secy$
$\frac{1}{dx}$ $\frac{1}{1+x}$
(X) $dy + y = x y(1) - 2$
$\frac{1}{dx} = \frac{1}{2x} = \frac{1}{4^3}$