التاريخ Date Subject موضوع الدرس lecture 3 +2X+y=0 $\rightarrow 0$ $\rightarrow 0$ -ln1e-2+ 22/ = 2x+c -lnle=+(y)21=2lnx+lnc

Subject XEXact differential equations M(X,Y) dx + N(X,Y) dy = 0JM(X,y)dx+JN(terms not containing X) dy = C Q(2x COS y + 3x2y) dx + (x3-x2siny-y) dy =0 $\frac{dM}{dx} = 3x^2 - 9x \sin 9$ dm dn is exact 2x cosy+3x2y) dx+5-y dy = C x2 cosy + x3 y -(2y2+4xy-x2)dx+(2x2+4xy-y2) dy 50 NX = YX + YY 2xy2+2x2y-3-13-3 (XY COS XY + Sin XY) dx + (X2 COSXY +ey) dy so My = +Xysin (xy) +XCos xy+xcosxy = Nx = 2x cos xy + xisinxy XSINXy + (0/8X9 - COS XY+CY = C X sin xy + c9 = محمد و اميرة-