

Subject X (Siny + x2 +2x) dx + (cosy)cy =0 Nx = 000 1/1 My=Cosy (exsiny +xex + exex) dx + excosy dy =0 My = excosy -> Exact NX= CX COSY U= Sexsing +x2ex +2xex) dx=0 Cx siny +x2ex -2xex + 2ex +2xex -2ex e_X e^{x} = exsing+x2ex U=Sexcosy dy = exsiny+c => exsiny + x2ex = c H.W D (xy+ y-1) dx +xdy=0 2 (xy+y2)dx +(xy-x2)dy zo 3) (3y+3exy23)dx+xdy = 12(242+5xy-24+4)dx+x(2x+2y-1)dyzo