التاريخ ____ Date موضوع الدرس معادلات تفاظيم الم differential, ordinary - y= F(x) -> y', y", y" partial +Z=Z(x,y) +Zx, Zy, Zxx equations Function derv. > ordinary (ode) DY = A COS WX + B Sin WX y's - Awsin (wx) + Bucos (wx) y's - Aw coscux) - Bw sin cux) y" = -w [Acoswx + Bsin wx] y = - w2 y 22(x- x) + 2(y-B)y'=0 $2 + 2(y-B)y'' + 2(y')^2 = 0$ $\Rightarrow (y-B) = -\frac{2+2(y'^2)}{2y''} = \frac{1+(y')^2}{y''}$ Wy = Ax+ A? 3 y= Ae2x + Be-2x y = 2A e2x -2B e-2x y"= 4Ae2x +4Be-2x = (4 (4) y"= 4(y)