MAZZ7 HW & Brady LECH Max Sho I please my boror blook I have absided by the Slevers bor Scaly - Up de) 44"+1124=5(b), OEXZY, Y69=Q4(4)20. g(x)=0=) (a) m2+11220 Yp=0 mar stai ye = C, Sih(tx) + C2cos(Tx) 4 = CISIN (TIX) + CZ COS (TIX) y (4)=0 1/0/20 0 = C, Su (417) 02 C1 SIN(0)+C2 cos(0) 020 V 0=(2=) (2=0 CI = R 1 y = C, sin(xTT) Yez Ax2+ Bx+C. (b) 444+172y=-x2+4x y'p= 2Ax +B 4c = Cism(tix) + (2cos(TX) y"pr 2A C/(ZA)+12(Ax2+Bx+C)=-X2+4x Y = Mc+ 4P Y = Cish(TIX) + C2cos(TIX) - Tix2+ Ti2X+ Fig 8A + Ti2Ax2+ Ti2B+ Ti2C+8A=0 A: - = B= = T12 C+8 = = = = = 0 0 = C, Sin 0+C2C080 - 0 + 0 + 874 C= 44 0 = C2 + fin => C2 = - fin y(4)=0=> 0= C, Sh YTT+ = = (4)2+ = (4) + = = 0=> C, = R Y= CSIN(TIX) - \$ (05(TIX) - 12 x2+ 42 x + 8 04x4TI, y'(0)=0, y'(ti)=0 2. y"+4y1+ 14=0, (i) - 2+4<0=> 4</ m2+4m+100 (11) - 14400 e) 42) SA m2+4m=-> (111) - 2+4 > 0 >> 4 > ) m2+4m+4=-2+4 (m+2)2=-x+4 y (0) 20 20 0= dcy - 2c2 => 2c22 dc, M= -24 V-1+4 y = e 2x [-2 shdx + dlos(dx) - 260s(dx) - 2 d2 shdx) Y'= Sho(dx) e-2xc, [-2- = 2] Y'(ti)=0=> 0= showd e-281c, [-2-22] (b) - 1+400 -> -1+4=-12 m= -2 + xi e-2x (Cisin &x) +Czcos(dx)) Y = e-2xC, sm(dx) +e-2xC2 Cos(xx) y'=-2e-2xc, silm dx + de 2xc, cos(dx)-2e-2xcrosdx+de-2xcrshdx)

