NAME: JOLAADE ADEWALE . A DEPT: PETROLEUM COURSE: EN9381 ASSIGNMENT 2 (1) 102 + 410 + 5y = 65m 0 y" + y' + 5y = 65m 0 K2 + 416 + 8 = 0 k2 +4K =-5 K2 + 4K + (2)2 = -5 + (2)2 Cle+212=-1 K+2=±5-1 k+2 = ± i K1 = - 2+i and k2 = -? Ju = C, e-20+io + Cze-20-io 2" = 6-50 [C'(c,0 + C'56-50 A-10 Jn = 8-20 / ACO + ABSON & J Je = Acosa + Bsma y's = - Asm + + BOUSE y'p = - ACOSO - BFORD -Aust - 135m + +4[-Asm + 4BCOCD] + 5ACOST + 585m + = 65mt - 4 cos + - 15 m + - 4 Am + 48 cos + + 5 A cos + + 5 B som + = 6 som + 4Acoso + 4Bsm 0 - 4Asm 0 + 4B cos 0 = 65m0 (-4A+4B) 5m + + (4A+4B) LOSO = 65m 0 -4A+418=6 4A+48 = 0 8B = 6 8 = 6/8 = 8/4

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44 = - 43 A = -3/4 30 = -3/4 cus or + 3/4 8mo 8 = 9-20 (4 coso + 8mot ) + 3/45mo -8/4 coso Steady State Equation 4p1 = 3/4 cost + 3/4 some = 0 3/4 cos & + 3/4 sin 0 =0 3/4 cas to = -3/4 sm & Cos 4 = - > m 0 Sm 0 = - cos 0 Cos O for 0 = - 1 FI 123 = 12(1-2) 61m2=0 m = ±50 m = ±0 Y= 80x[A+Bx] 7 = A+8x Jp = J = Fx2 + 9x3 + 4x4 20/dx = 27x +39x2 +414x3 Tr 7 = 27 + 60x + 12 Hx3 EI[27+692+12H2=]== (L-2)

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