1 41+V+3u+V=0 (1) V(0)=2, U(0)=1) W-V+4+3V=0 (2) 201+24-25=0 V'-V+U=0 [U= V-V' = 7U'= V'-V" (2): 5'-5"-5"+5-5"+35=0 - 5"AB- V'+ 4V=0 v=elx =7v'=ledx, v=d2edx 12e1x+1e1x-4e1x=0 12+1-4=0 Q=1+16=17 [V= C1 e (1+ MT) 12.50 + C2. e (1-M7) 12.50 V(0)=2=7 C1+C2=2=7[G=2-C2] U(0) = 1 = 7 U(0) = V(0) - V(0) = 7 - V'(0) = -1 = > V'(0) = 1=> Cydy+C2/2=1 2 A1 - C2 A1 + C2 A2 = 1 C2 (A2-11)=1-2A1 C2= 1-2/1

1) $x^2y'' + xy' + (x^2 - 5)y = 0$ y(1) = 0, y'(1) = 1Plumenue: $y(x) = C_4 J_{15}(x) + C_2 J_{15}(x)$ q_{-4} beccentle q_{-2} because q_{-2} neumana 1 projec