GF SUMMARY BUP SUPPOSE, WANNESOLVE: / M"(x)+ MM'(x)+ qMy(x)=f(x) x70 The single from $\xi - \xi$ to $\xi + \xi$; $= \int_{\xi + \xi} \int_{\xi +$ [G] = 0 [3G] = 1 > REWRITE: G(x, q) - 5 A(2) y (x) + ts(2) y 2(x) OS X (3)
2 C(2) y (x) + T(2) y 2(x) X > 3 BC # X=0 ; MATERY FORM: (y,(0) gz(0) (4/9) = (0)

(y)(0) gz(0) (8/9) = (0) CONTINUITY& JUAT CONDITION AT X= 3, MATTEIX FORM (y (=) y2(2/)(C(3/)_10) y'(3) y'(3) D(3) [1) SOL: (C(3) = 1 (3/3) - y 2 (3/0) (0) (3/2) (3/2) (3/2) (1/3/1) y. 92 y. 92 = 1 (- 32(8)) y (4) 50 = (12) (-32(8)) 05x58 => GF FOR IVP: G(x, 4/= 50 x(2) y, (3) y2(x) - y1(x) y2(3) x75

GF FOR IVP TWO POINT HOMOGENEOUS BCS. Ly=4 acxeb X, y(a) + X2 y(a) =0 GT: 7 SOLOF: LG = S(A-E) SUBJECT to JCS: F,y'(8) + Fzy(8)=0 X, 3G (a, 3)+X2G(a, 3)=0 5, 3G (e, 3)+72G(b, 3)=0

4(x, 3) & d(x, 3) & b SOL FOR Y 15 THEN: M (x) = (G(x, 8) \$ (3) d 3 (BR: Ly = L G(T, Z) A(Z) dz = LG(T, Z) A(Z) dz

G (M) THE WT MEN AS:

- A(Z) MA(X)

G (X Z) = LG(T, Z) A(Z) dz = LG(T, Z) A(Z) dz = A(Z)

- A(Z) MA(X)

- A(Z) MA(X)

- COMPARE W/ EVP CASE

- COMPARE W/ EVP JUNTE CONTINUITY CONTITIONS: []=0, []=0, []=1

X=2, []=2

X=2 MATER FORM: (ya(3) ye(3) -A(3) = (0)

ya(3) ye(3) \ \(\frac{1}{3} = (0) \) SOL: [-A(2)] = 1 (yo(2) -yo(2)) - (1) (yo(2) -yo(2) of out - t - ye(3) Sol does not exist or not unique it wtonskim wariles