Sch. 7= slaha -2

```
dh- B(M) = a(M) m(00) = a
g1. (2)
                     n - tanny 232 7(20)20
     Bon has discontinuities at 2=±==, ±===, ±===, ±===,
      Man is always continuous. in Solm of this IVP
     is guaranted to exist uniquely on any interval
     containing no = 21 but not containing any of the
     discontinuities. The largest of such interval is (31 51)
                                             (-9,9)
         With similar argument
  (6)
           (9, 00)
  (C)
         (-\infty, -9)
  (d)
           No assurance of a unique solution
  92. Two L.C sol? n= et, n= tet
  93. a_1(n) = \frac{a_2(n)}{a_0(n)} \exp\left\{\int \frac{a_1(n)}{a_0(n)} dn\right\} To check this \int \frac{a_2(n)}{a_0(n)} dn
        (con) n" - (sinn) n' + (con) n 20
  94. (a) 10,= 22, 12 22 logn W(n)= 23 $0, a is note
                                                        ft. inthedomashof
                                                      :LE logn
      22 dr - 32 dr + 49 =0
   (6) N = 223 is not zero everywhere

23 d3y - 32 dy + 62 dy -64 20
 95. G(x,t) = \begin{cases} -\frac{3i\pi h x \sinh(t-1)}{\sinh(1-t)} & \text{osact} \\ -\frac{x \sinh(x-t)}{\sinh(1-t)} & \text{then} \end{cases}
```