```
of [p(n) on ] + [xw(x) - g(x)] v:0 -> (p(x) of 1/2 - of x) of x). [xw(x) - g(x)] v=0.
                                                                 . u. ube) seigerunda
    - = ( w) ( ) di = ( ws(2) / ws(2) / m) + ( m2. ws(2) . w(4) ) = 26
                                                                 (p(x), 9 (x), w(x) >0 ~ [0,6]
                                                                  . p(x) . w. ght sander.
                                                                    . W( r) - de osto Rula
      (- 1 . ws(x) din - ws(2x) dn ) = (m2. cos(x) - ws(x) ) u- 1. (x s o
aLxcb
                                                                                       (, . W(m) + () (a) = 0
                                                                                        of 1. 16/6) + do (166) = 0
                                                                                       · 4, 62 $0 A, de FO
             ( 1/2 w; 4(x). er') + ( 2 - ( m2. w; (x) - ( stx) ) or =0
                                                                                       71/24-12
         0< x< 2 C1. N(0): C2. N'(0)=0
                        C_1 \cdot \mathcal{U}(0) : C_2 \cdot \mathcal{U}'(0) = 0 (C_1, C_2) \neq (0, 0) d_1 \cdot \mathcal{U}(\frac{r_1}{2}) \cdot C_2 \cdot \mathcal{U}'(\frac{r_2}{2}) = 0 (d_1, d_2) \neq (0, 0)
                    Shooting method
              y = N 32 = 11' = do
            ( = cos'(x).y, 1 cos(x).cos(x))
= (7 - (x) - cos(x)) - cos(x)).u=0
               $ cos 3(x). y; , cos(2x). y2 + (x - (m2. ws 1(x) ws (x))). u = 0
                y= 2 · (x) · (x) · (x) · ως(x) · ως(x) · ως(2x) y 2
                                3(0)=0. y,(5)=0 quess y2(0)=5
                                                                      enter method - your goth go
                          g-155 5=1 => g2(0)=1. -> 20:1
                             82 (x:-1): 82 (x:) + h. 82 (x., 8, (x:), 8, (x:), 8 (xi)), A) contail difference & y'(x): 2h
                              yel +: 1) = y, (x; ) . by, (x, )
                                                                         Taylor expersions = for (x.a)
                        step1: 48,10):0; 82(0):1
                        5kp2: 8, (0,1)= 8, (0)+0,1. 8, (0): 0.0,1.1:0.1
                                8:10) = 2 ( 1: ( 2 - 2) - ( 2 - 2) .0 - (13.1) signer constants
                                                                              Newdord mellord so have " In will
                                  for a number of somes
```