Shooting method Two-point BVP (No. Do) te [t, tr] $B_{1j}(t_{1},y)=0$ $j=1,...,n_{1}$ $B_{2k}(t_{2},y)=0$ $k=1,...,n_{2}$ IVA -) Specify, y (t=t), =) Evolve in t. (steps in time) [For IVI Jo-(300, 40, 30, 30) BVP y= (5c, y, 5c, 29) sc(t2) = 100m, y(t2) = 0 $x(t_1) = y_0, y(t_1) = y_0$ N=4 $\left(\frac{dsc}{dt}\right) \frac{dy}{dt}$, $\frac{dv_{sc}}{dt}$, $\frac{dv_{y}}{dt}$ $\begin{cases} n_1 & Bcs & at t_1\\ n_2 = N-n_1 & Bcs & at t_2 \end{cases}$ Guess (Vx, Vy)

de = wilt=t, = 0 e laurch francest $O_2(t=t_2=T/4)=0$ with T=2.55Euess 01 O, w, = INP 四月到个

ODEs 2) e [0, 1] t e [0, T/4] A(2=0) = 60° 10 - T1/4 W $\omega(\tau=0)=0 \text{ rad/s}$ $\omega(\tau=1)=0$