0.1. Write a function that takes in a Triansfer function as an input and displays Popor Plot 0.

as Draw Popor plot for

(i)  $\frac{\Phi}{8(s+1)(s+2)(s+3)} = G_1(s)$ 

 $\frac{1}{s(s+1)^2} = G(s)$ 

(iii) (s+1) (s+2) (s+3) (s+4) =  $G_1(s)$ 

b) Using Popov plot give maximum Sector that (an & Keep the feedback system Globally asymptotically interconnection.

Q-2 For transfer function in 8.1 (a)
give maximum Sector that can
keep the feedback interconnection.
globally exponentially Stable.

Use Circle Criterion and Nyquest's plot to avoure at your answer.

Feedback interconnection.

$$g=0$$
  $G(t,y)$