ECE 365/460 HW 10

8-18 Sketch the locus for the unity FB.
System with

$$G(A) = \frac{K(A-1)(A-2)}{A(A+1)}$$

- as calculate break-in & break-away points
- will Find the ju ascis crossings)
- er Find the runge of K for stability
- d) Find the value of K that
 yields 2nd order complex poles with
 a damping ratio of 0.5.

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For the system in [a], slotch the lucus & find

of Asymptotes b) Break-away points

c) the range of K fur stability

a) the value of K to gield 3 = 0.7

the jw axis at js.s. We add a zero to the system as shown in [b]. Find:

- e) The value of & & sketch the locus
- F) Repeat part (c)
- 9) Compare (c) + (f). What transcent improvement do you notice?

