It Root lows: low of roots of d(s) + k n(s) as k varies. 8 cases: K>0 for feedback leading cogly of n is +1 k<0 -ve feedbad leading coef of n is-1. Arruption; d(s) is monie.

-ve feedhet d-kn

d+kn This finally, either k.n(s) has leading coeff tre of -ve and this is all 8 cases are about: added to fixed d(s). Root Louis. Starts from pole of you to zero for k >0 : k:0 → +00 falsofork(0:k:0->-w. dien of branches

k changing from 0 to + 00

k changing from 0 to + 00 dilection of branches 03 - 10 (fork < 0). Details Needed in Root Louis: - asymptotis: angles, point of interaction - Breakaway & break-in points - Real axis segments - clearly marked direction, clearly moreled pole (as X) of 300 (as O) - angle of departure and/or angle of arrival.