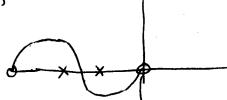
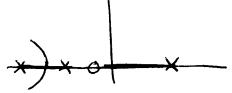
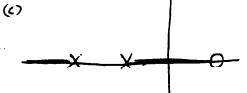
1. identify which of the following could be a locus

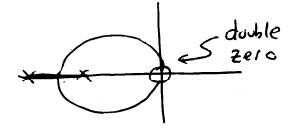
(4)



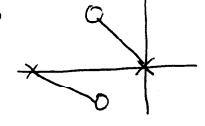


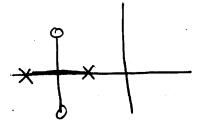


(a)

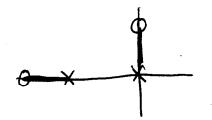


(c)

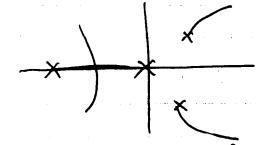




(6)



(h)



2. Sketch the root lows for each of the fullowing

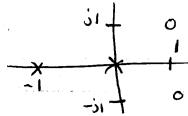
(c) $G(a) = \chi(\rho^2 + 1)$

(b)
$$G(0) = \frac{K(0^2+4)}{0^2+1}$$

(a) $G(0) = \frac{K(0+2)(0+6)}{\theta^2 + 80 + 25}$

(d)
$$G(0) = \frac{K}{(0+1)^3(0+4)}$$

3. For the pule-zero plot shown below, sketch the root locus & find the breakaway point



13. Plot the locus. Find all critical points

$$-G(\rho) = \frac{\chi}{\rho(\rho+4)(\rho+8)}$$

60) is a unity FB system.