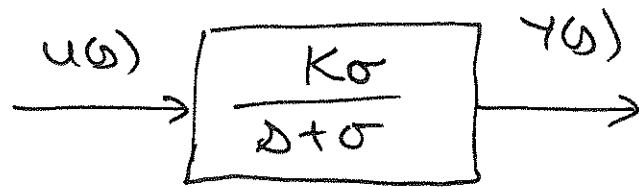
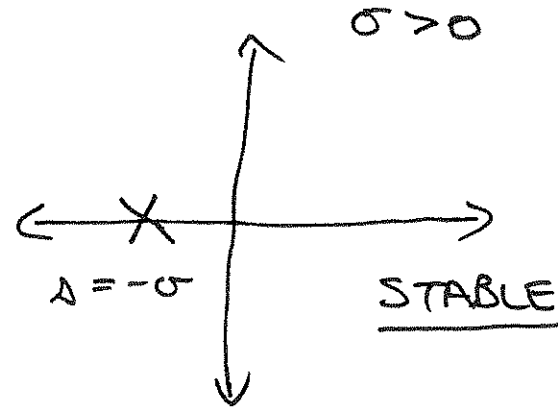


FIRST ORDER SYSTEM

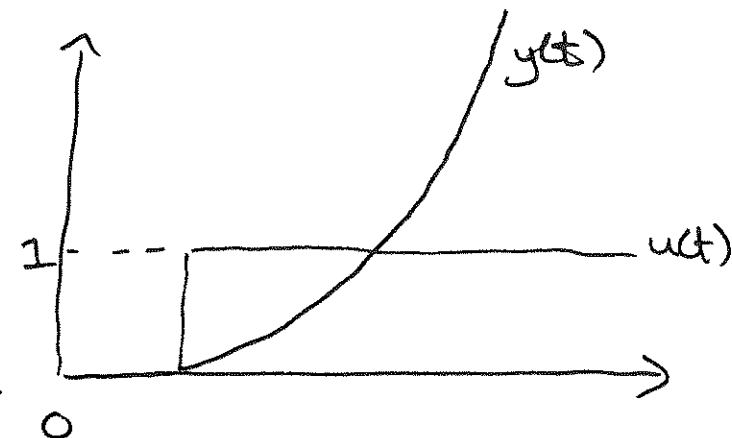
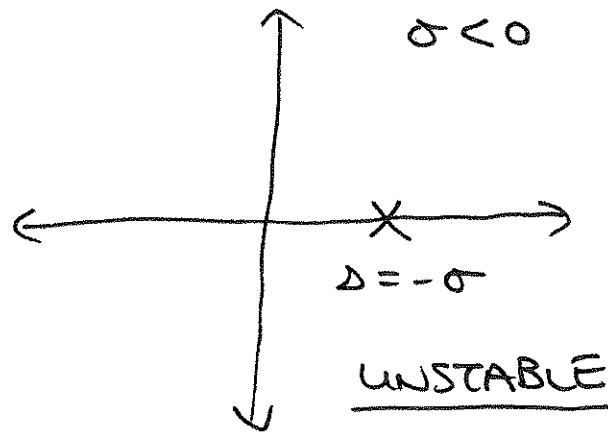
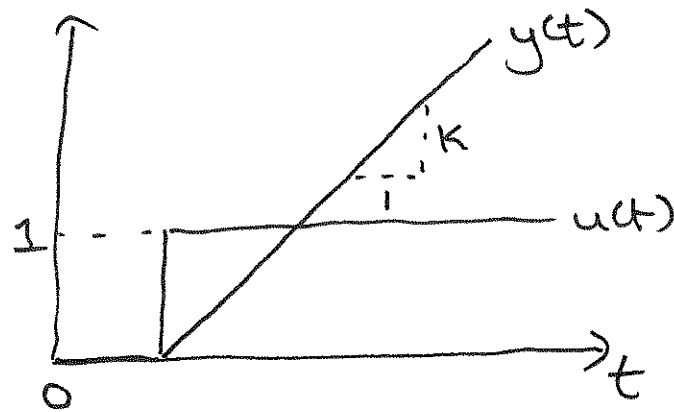
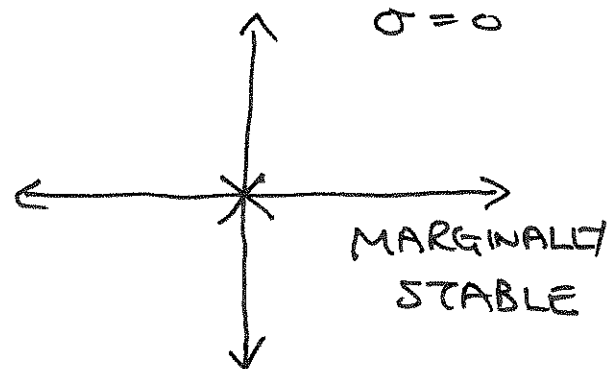
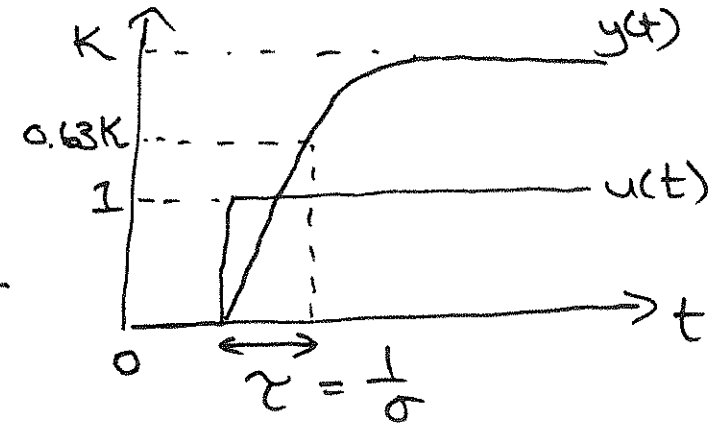


POLE AT $s = -\sigma$

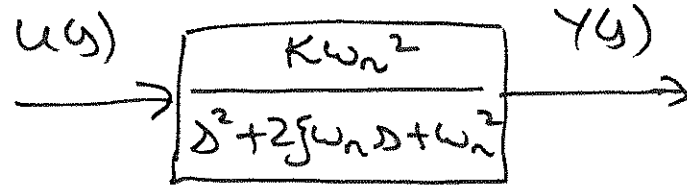
POLE-ZERO PLOT



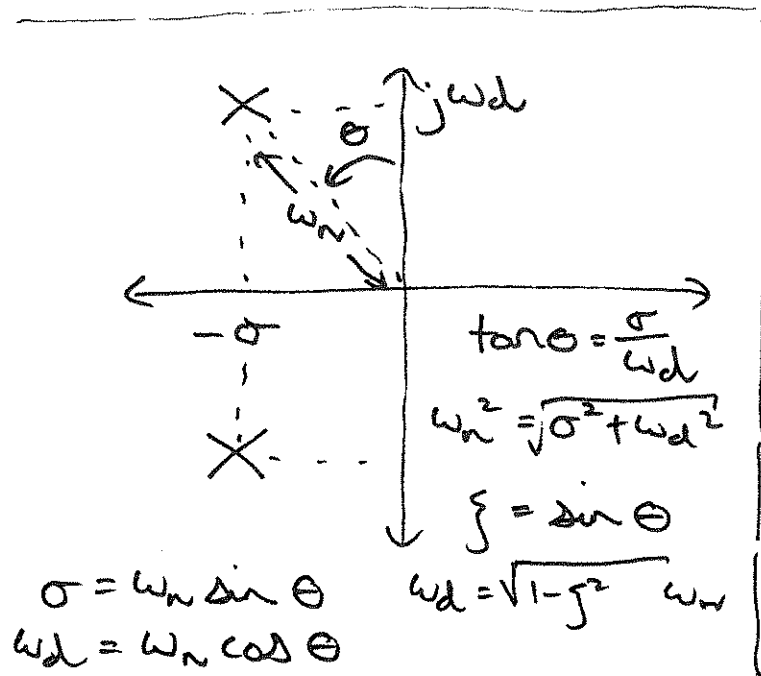
STEP RESPONSE



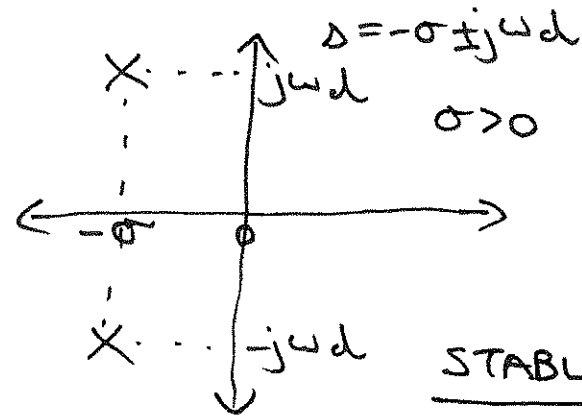
SECOND ORDER SYSTEM (UNDERDAMPED)



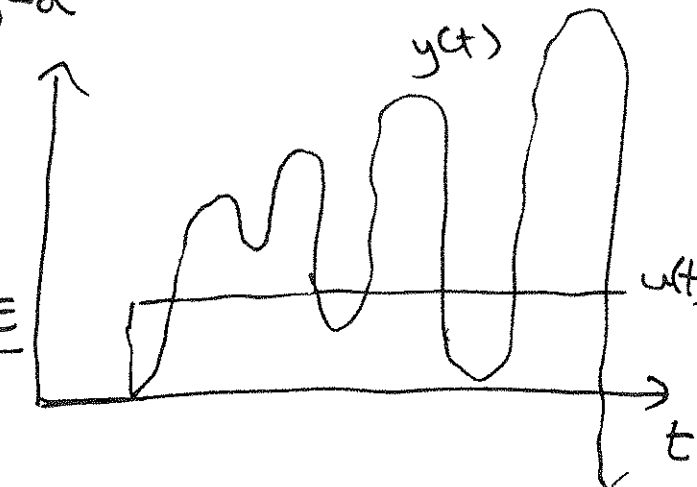
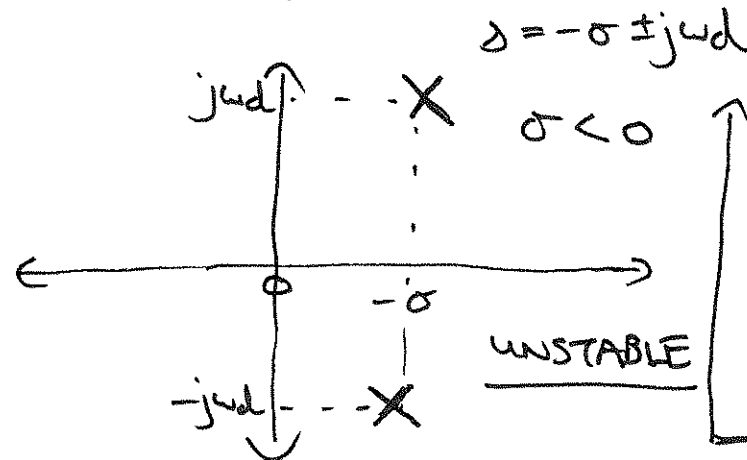
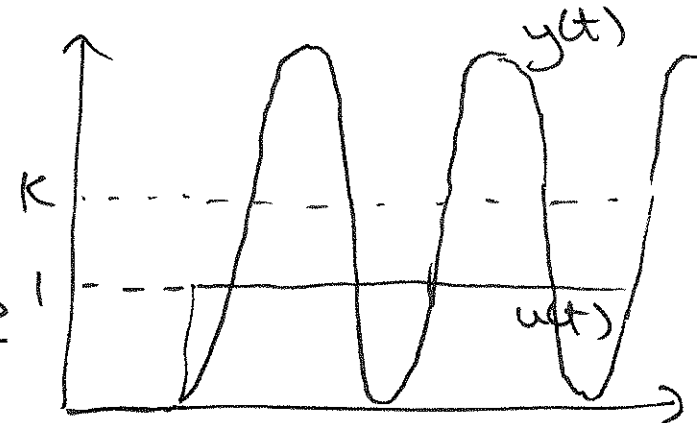
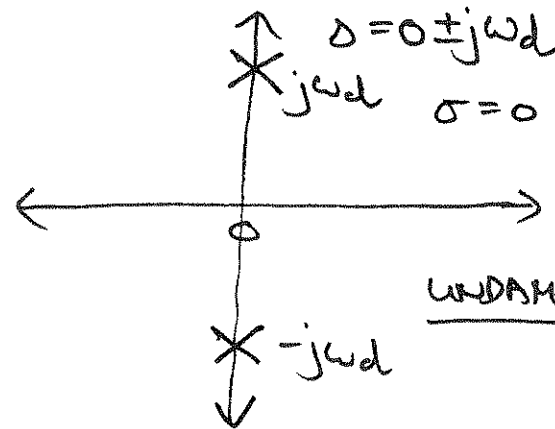
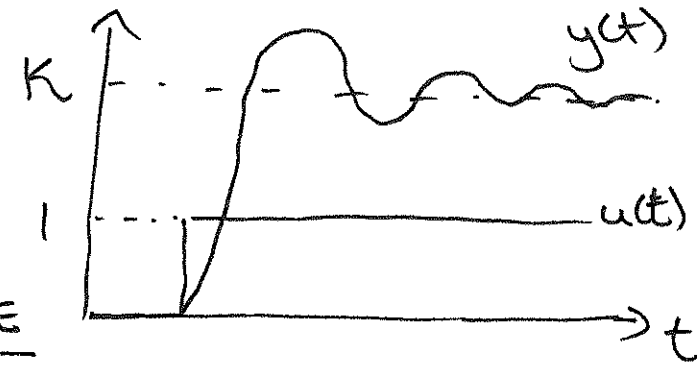
UNDERDAMPED CASE



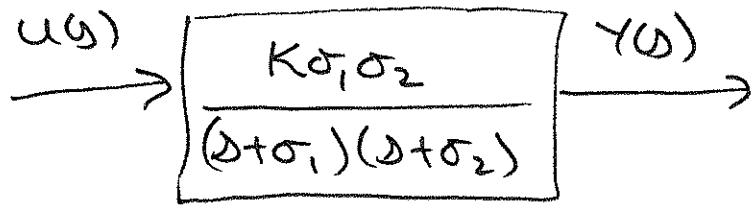
POLE-ZERO PLOT



STEP RESPONSE

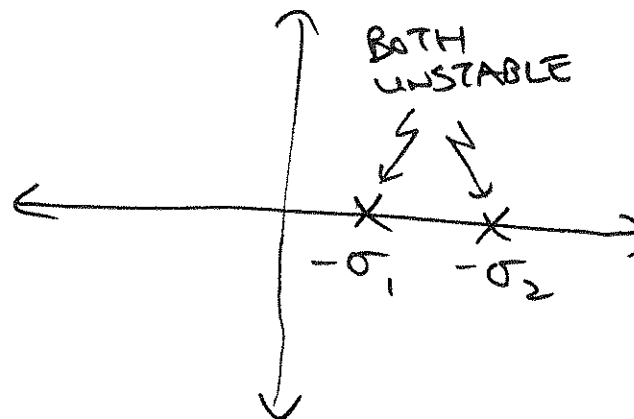
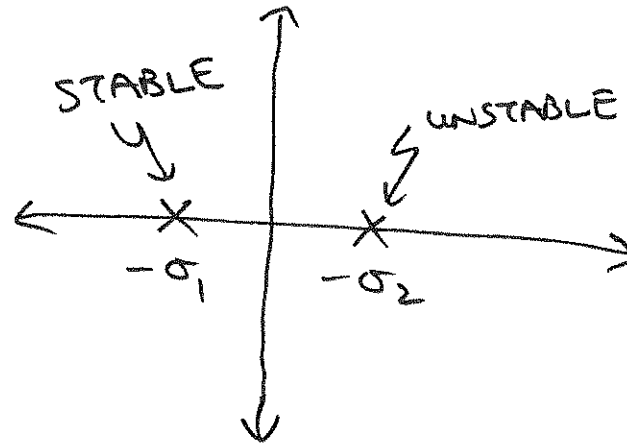
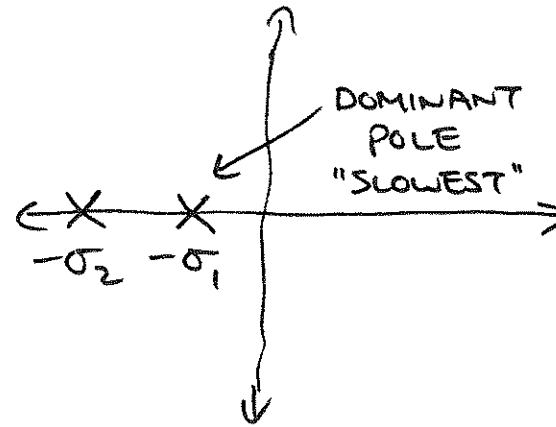


SECOND ORDER SYSTEM (OVERDAMPED)

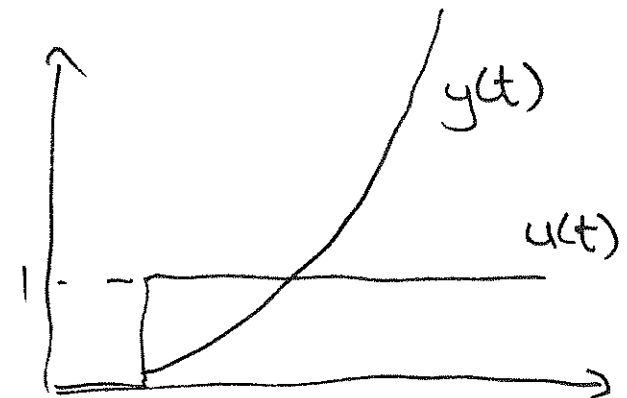
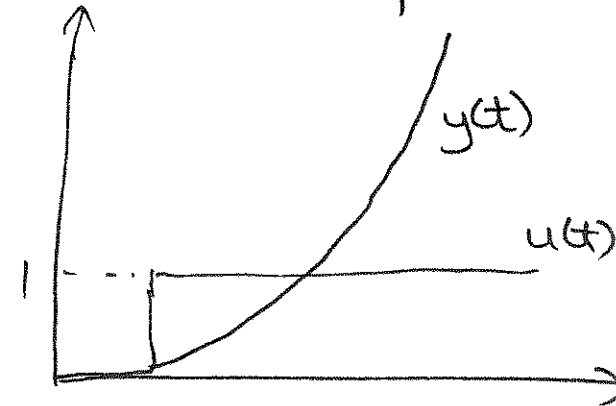
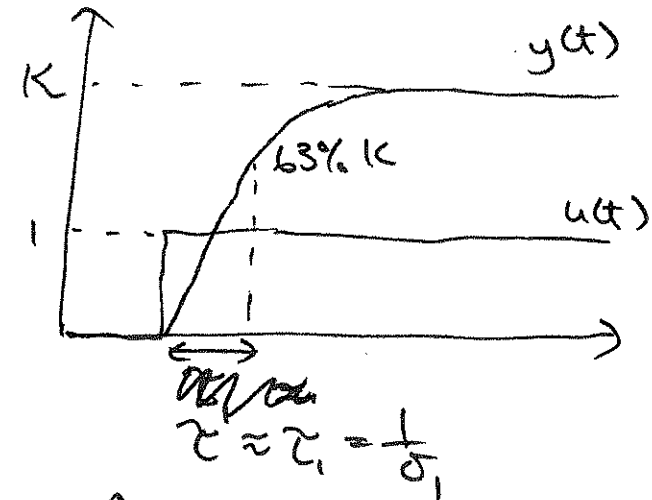


OVERDAMPED
CASE

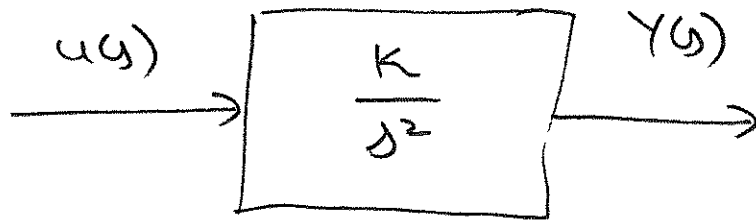
POLE-ZERO PLOT



STEP RESPONSE



DOUBLE INTEGRATOR



$$\ddot{y}(t) = Ku(t)$$

