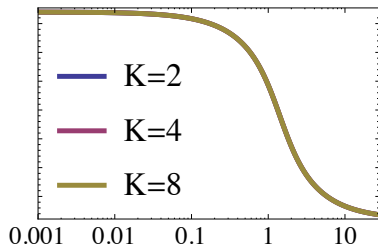
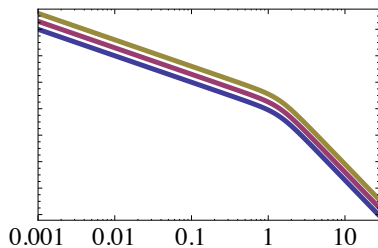


Effect of Varying K

Changing the value of K moves the crossover frequency ω_c !!



What happens as we vary K ?

$$\angle KG(j\omega_c) \begin{cases} > -180^\circ, & \text{for } K < 4 \\ & \text{(stable)} \\ = -180^\circ, & \text{for } K = 4 \\ & \text{(critical)} \\ < -180^\circ, & \text{for } K > 4 \\ & \text{(unstable)} \end{cases}$$