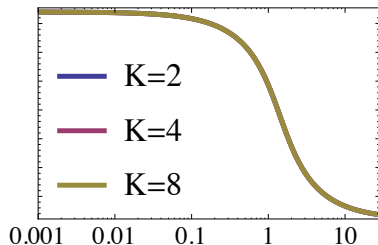
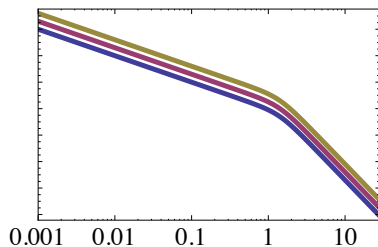


Effect of Varying K



What happens as we vary K ?

- ▶ ϕ independent of $K \implies$ only the M -plot changes
- ▶ If we multiply K by 2:

$$\log(2M) = \log 2 + \log M$$

– M -plot **shifts up** by $\log 2$

- ▶ If we divide K by 2:

$$\begin{aligned}\log\left(\frac{1}{2}M\right) &= \log \frac{1}{2} + \log M \\ &= -\log 2 + \log M\end{aligned}$$

– M -plot **shifts down** by $\log 2$

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