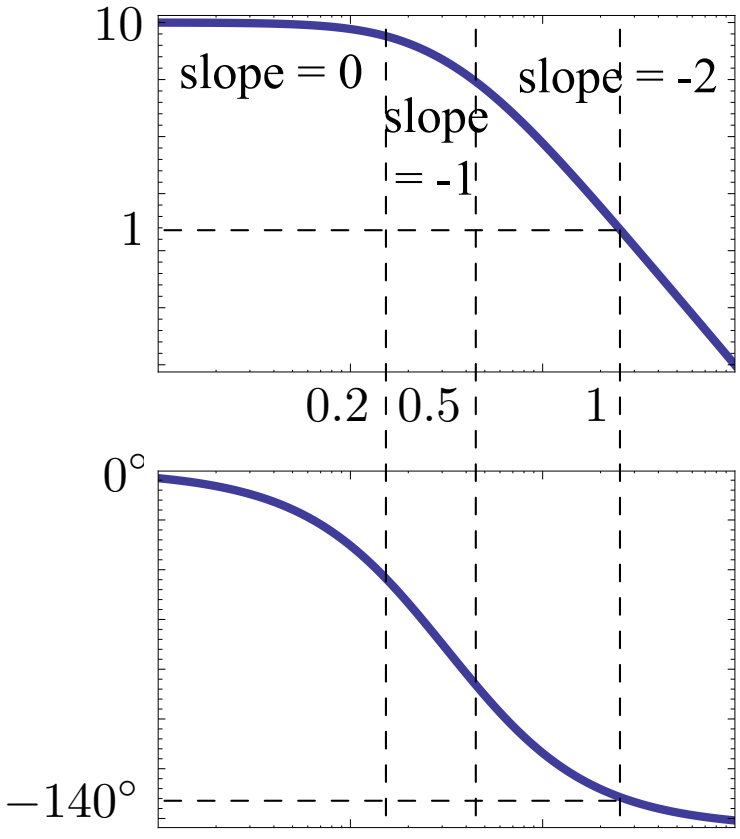
Lead & Lag Compensation



Step 1. Choose K to get $\omega_c \approx 2$ (before lead)

Using Matlab, can check:

at $\omega = 2$, $\quad M \approx 0.24$ (with $K = 1$)

— need $K = \dfrac{1}{0.24} \approx 4.1667$

— choose $K = 4$

(gives ω_c slightly < 2, but still ok).