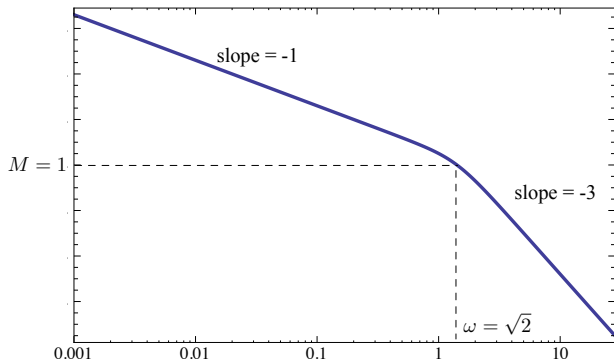


Example, Magnitude Plot

$$KG(j\omega) = \frac{K}{2j\omega \left(\left(\frac{j\omega}{\sqrt{2}} \right)^2 + j\omega + 1 \right)}$$

Magnitude plot for $K = 4$ (the critical value):



$$\text{When } \omega = \sqrt{2}, M = |4G(j\omega)| = \left| \frac{2}{j\sqrt{2}(j^2 + j\sqrt{2} + 1)} \right| = 1$$