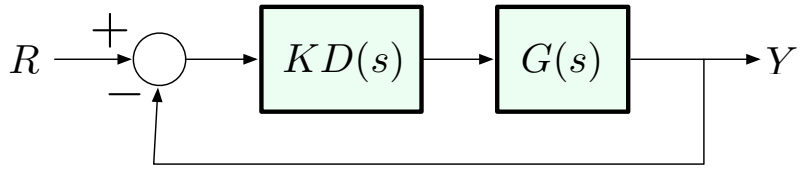
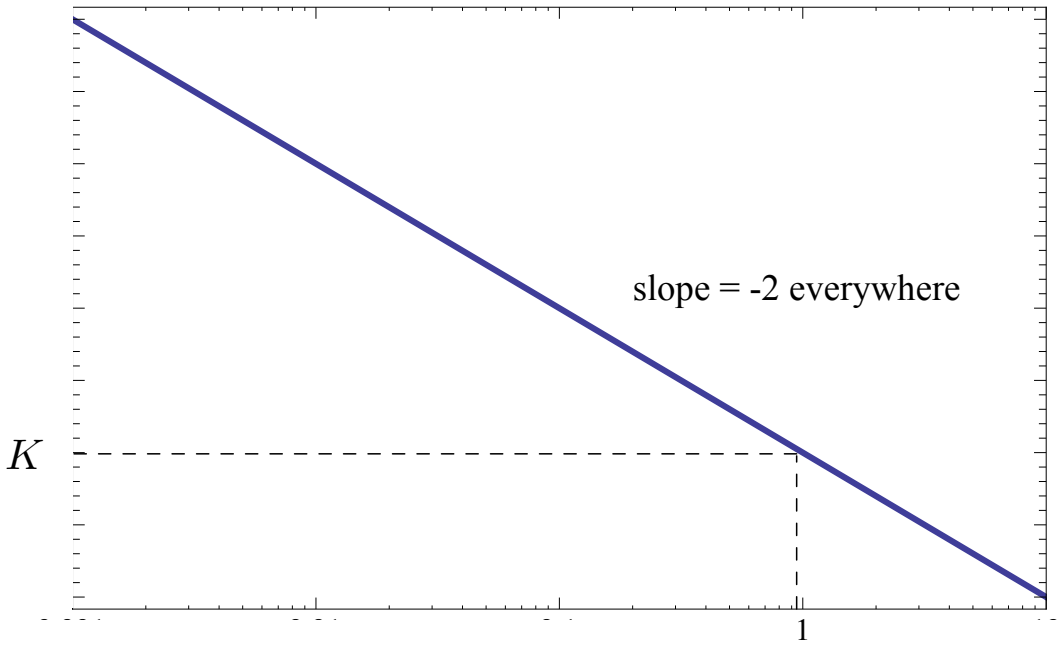
Design, First Attempt



$$G(s) = \frac{1}{s^2}$$

Let's try proportional feedback:

$$D(s) = 1 \implies KD(s)G(s) = KG(s) = \frac{K}{s^2}$$



This is not a good idea: slope $= -2$ everywhere, so no PM.

We already know that P-gain alone won't do the job:

$$K + s^2 = 0 \text{ (imag. poles)}$$