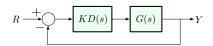
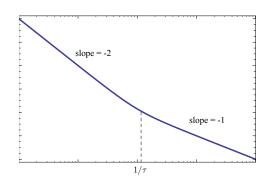
## Design, Second Attempt (PD-Control)



Open-loop transfer function: 
$$KD(s)G(s) = \frac{K(\tau s + 1)}{s^2}$$



For the G-P relationship to be valid, choose the break-point several times smaller than desired  $\omega_c$ :  $\implies \text{let's take } \tau = 10$   $\implies \frac{1}{\tau} = 0.1 = \frac{\omega_c}{5}$ 

Open-loop t.f.:

$$KD(s)G(s) = \frac{K(10s+1)}{s^2}$$