Figure 3

Optimal PID Controller Tuning
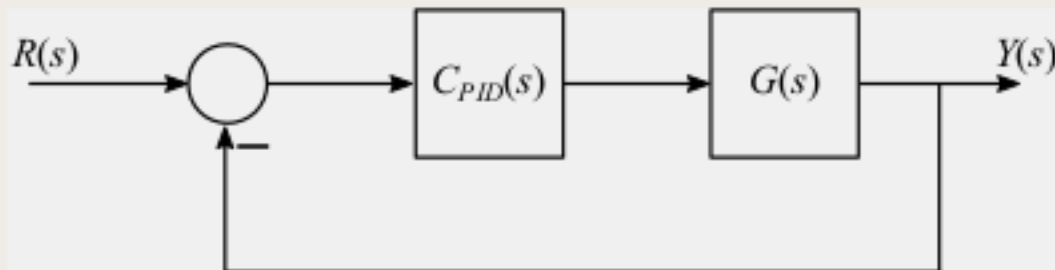
Plant:

Load Default Values

$$G(s) = \frac{10}{1*s^3 + 6*s^2 + 11*s^1 + 6}$$

Adopt the parameters of a PID controller and enter its modes

C(s)=Kr(1+1/TIs+TDs)

☑ P Mode `1`   ☑ I Mode `1`   ☑ D Mode `0`

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Please be patient

The optimal controller calculation strongly depends on the initial conditions.
Be sure to correctly initialize the chosen controller to determine its optimal parameters.

Weight Functions:

Minimize ITAE Criterion   `1`

Minimize Maximum Overshoot   `10`

Minimize Sensitivity Function   `20`

Analysis Tools

Simulation

Optimal PID

Kr: `1`   TI: `1`   TD: `0`

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