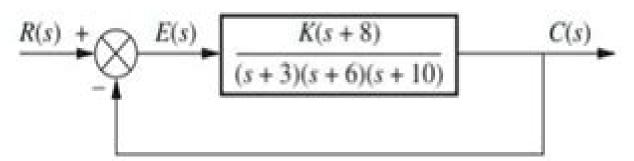
# Continuous Time Controller Design

# Objectives

Analyzing and troubleshooting skills while designing a controller using MATLAB, Control Systems Toolbox & Simulink.

# Task Details

Using resources and background knowledge design a controller  $G_C(s)$  (cascaded/parallel) for the system shown below:



the design criteria are:

- Peak time that is two-third that of uncompensated system
- Overshoot 20%
- Zero steady-state error for a step input

# Deliverables

You must submit:

- A MATLAB function (\*.m file).
- A Simulink Model file (\*.mdl or .slx file).
- Images of the graph plotted using MATLAB & Simulink with analysis (Word file).

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