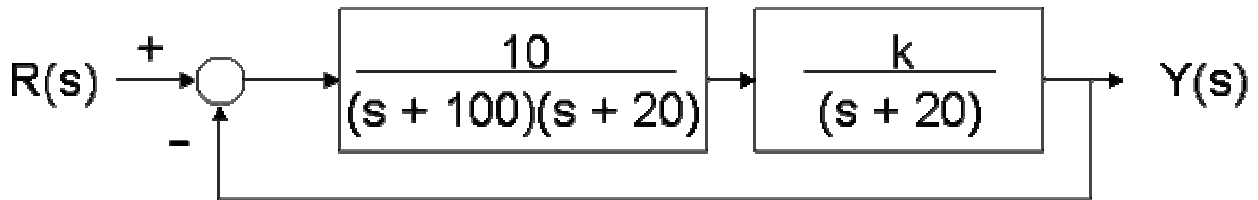


HW#4 Controls

1) Give the following control system:



A) Determine the gain k such that the system is stable.

B) Determine the gain k such that a step function in put will give a 5% overshoot.

C) At the gain in part B, what will the rise time be for a step function to reach 95% of the final value?