

- a) Figure Q2.a is shown the block diagram of a simplified aircraft pitch stabilization system.
- Show that for a unit step input, the steady state position error  $E$  is zero.
  - Determine the steady state position error for a unit velocity input (ramp input).

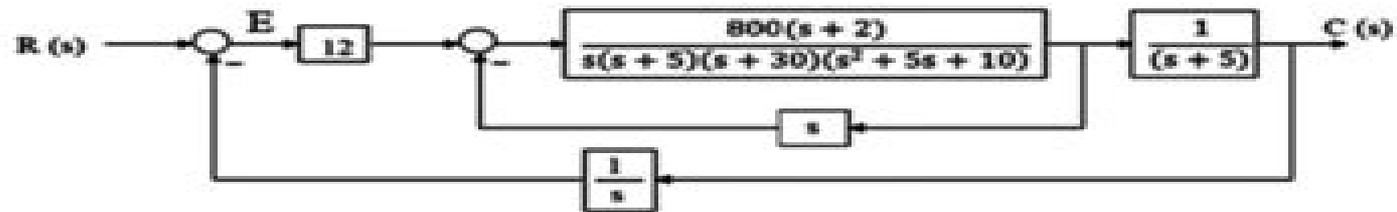


Figure Q2.a

- b) A unity feedback control system can be represented by the following closed-loop transfer function:

$$\frac{C(s)}{R(s)} = \frac{6s + 7}{s^2 + 2s + 7}$$

- Determine the open loop transfer function  $G(s)$
  - Find the steady state error for a unit ramp input
- c) A certain plant can be represented by the closed loop system as shown in the Figure Q2.b.
- Determine the range of  $K$  to ensure its stability.

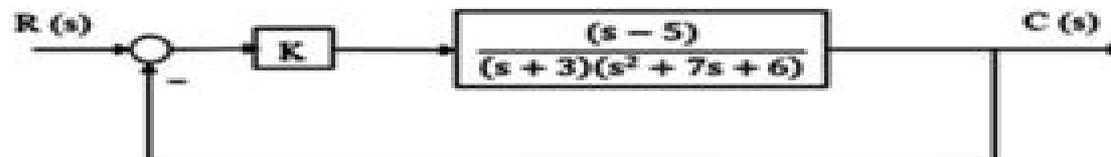


Figure Q2.b

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