Week 1: Online Lecture 01 – Activity

EE352 AUTOMATIC CONTROL

1. Take 3 examples for SISO control systems (other than used in the lecture) and identify their input, output and control system components.
2. Take 3 examples for MIMO control systems (other than used in the lecture) and identify their inputs, outputs and control system components.
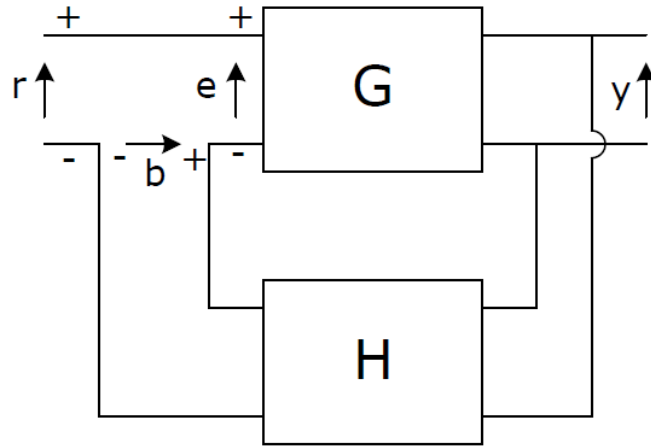3. Consider the system shown in Fig. 01

Fig. 01

i. Derive a relationship between r and y, $M = \frac{y}{r}$
ii. Find the sensitivity S_G^M
iii. Find the sensitivity S_H^M

Submission deadline: 8:00 am on 25.12.2025