

Typical Solution.

Faculty of Engineering	Philadelphia University	Mechanical Eng. Dep.
Course name: Automatic control	First Quiz	Course number: 620443 class(1)
Instructor: Eng. Laith Batarseh	Thursday 22/3/2018	Allowed time: 10 minutes

Student Name:

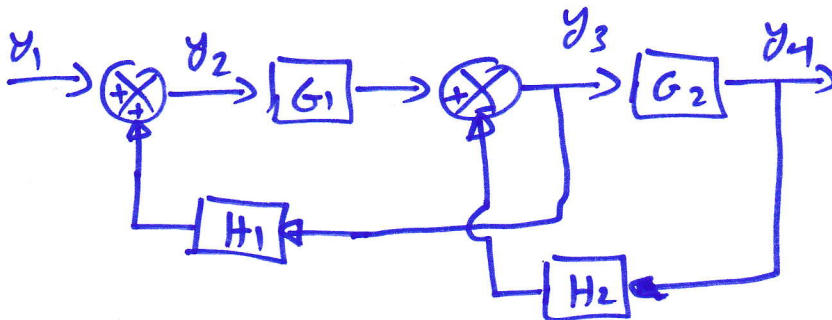
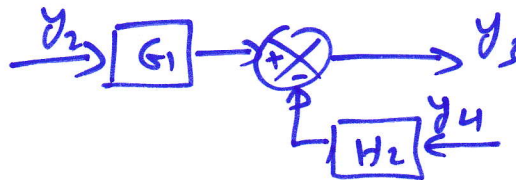
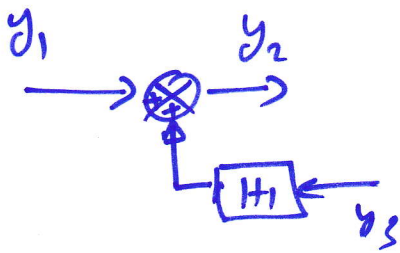
Student ID number:

Problem: draw the following system of equation in one block diagram. Show all the procedures

$$y_2 = y_1 + H_1 y_3 \quad \text{---(1)}$$

$$y_3 = G_1 y_2 - H_2 y_4 \quad \text{---(2)}$$

$$y_4 = G_2 y_3 \quad \text{---(3)}$$



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$$y_4 = G_2 y_3 - G_3 y_2$$

