Automatic control

Homework number: [1]

Student name:

Student registration number:_____

Class number: \bigcirc class [1] 10:10 - 11:00 \bigcirc class [2] 8:10 - 9:00

Assignment: draw block diagram for the following systems if you know that G and H refer to transfer functions and y for variables:

System #1: assume y_1 is input and y_4 is output

$$y_2 = G_1 y_1 - H_1 y_3$$

$$y_3 = G_2 y_2 - H_2 y_4$$

$$y_4 = G_3 y_3 + G_4 y_4$$

System #2: assume y_1 is input and y_5 is output

$$y_2 = G_1 y_1 - H_1 y_4$$

$$y_3 = G_2 y_2 - H_2 y_5$$

$$y_4 = G_3 y_3 + G_5 y_2$$

$$y_5 = G_4 y_4$$