Benha University
Faculty of Engineering (Shoubra)
Electrical Engineering Department

3rd year Computer Systems
1st Semester, 2015-2016
Subject: Automatic Control

Sheet (4)

1- Draw the signal flow graphs of the following control systems and the Closed loop transfer function $Y(s) / R(s)$ using Mason's rule.
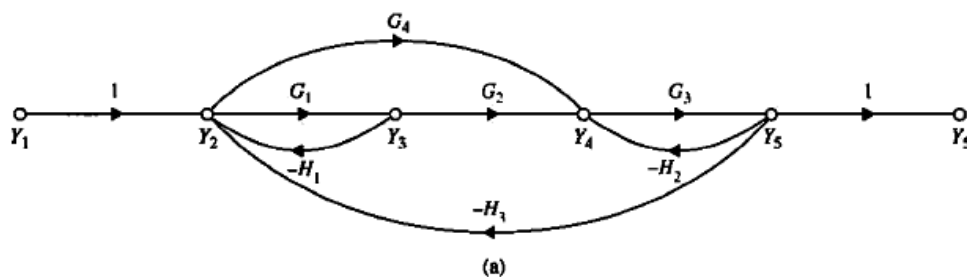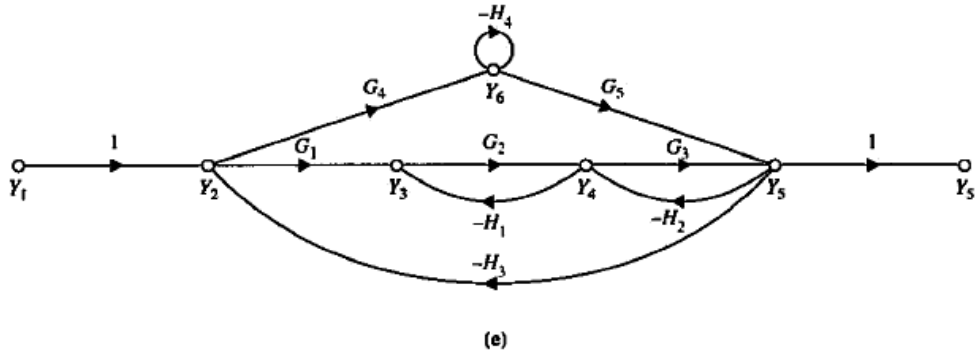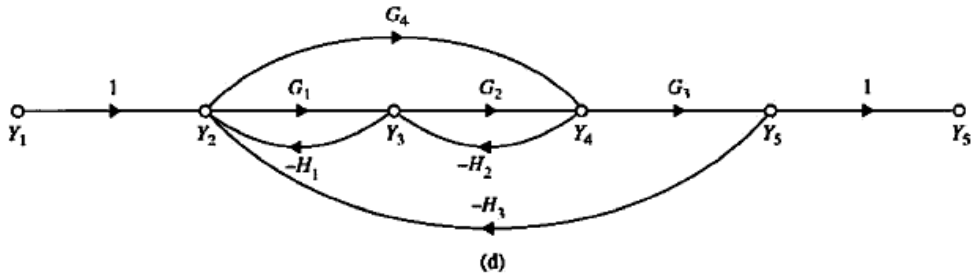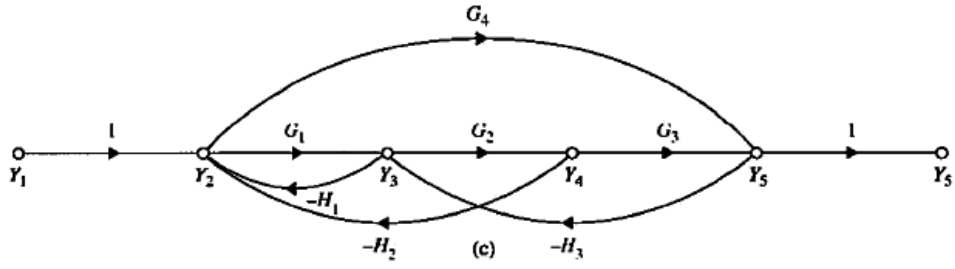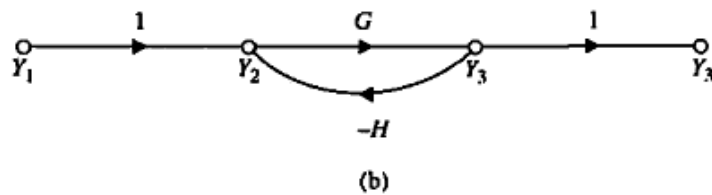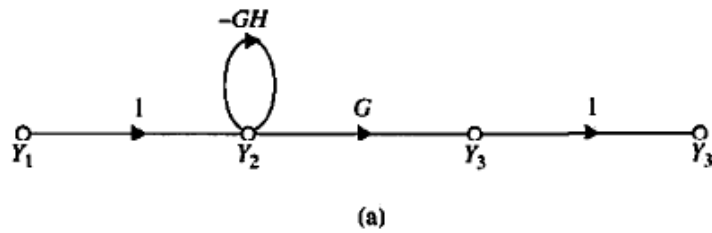
(a)

(b)

(c)

(d)

1

(e)

(f)

(g)
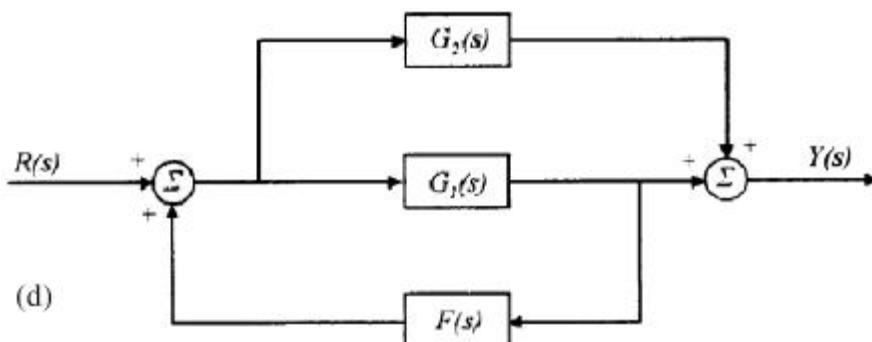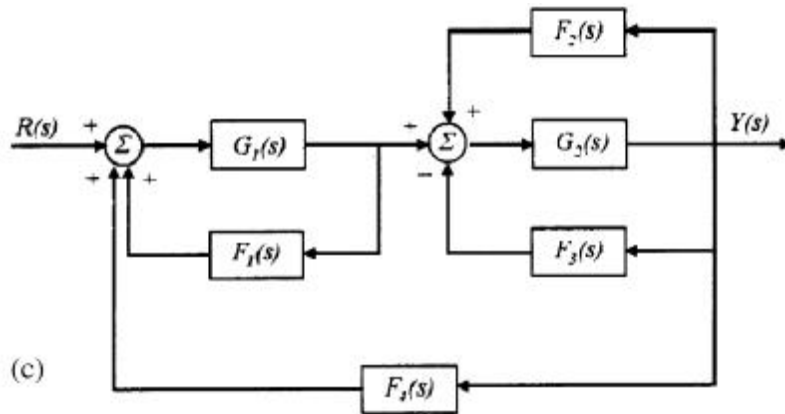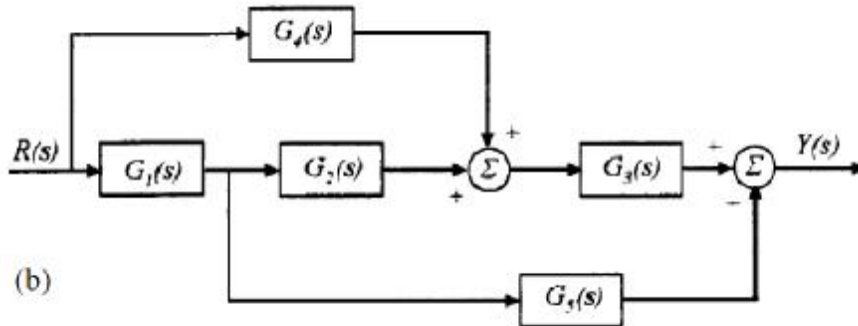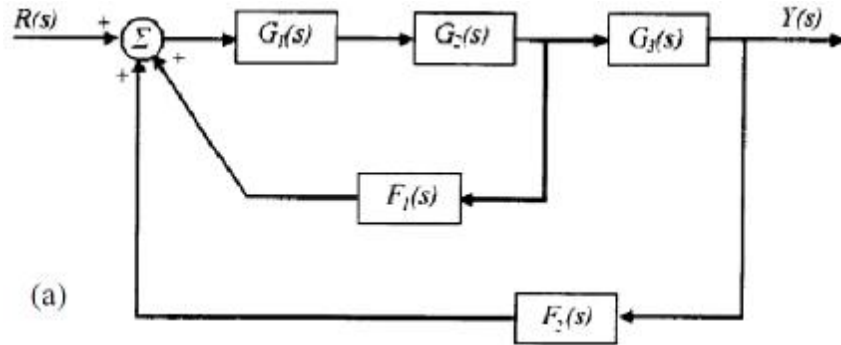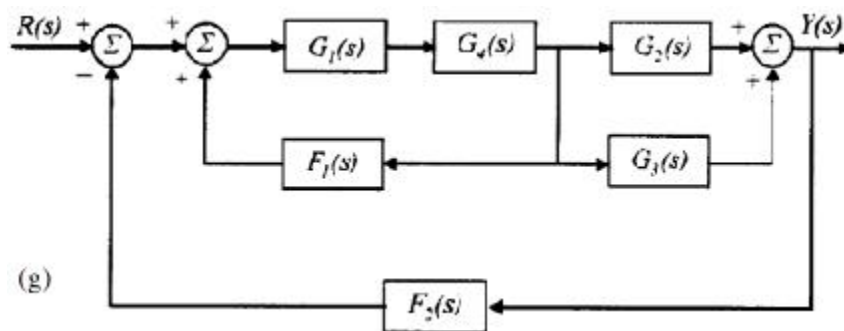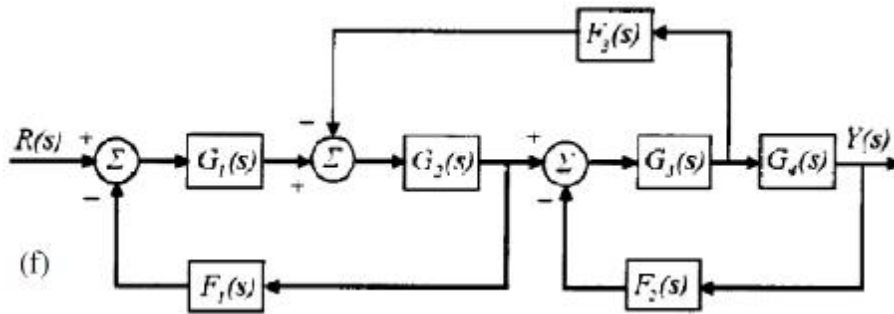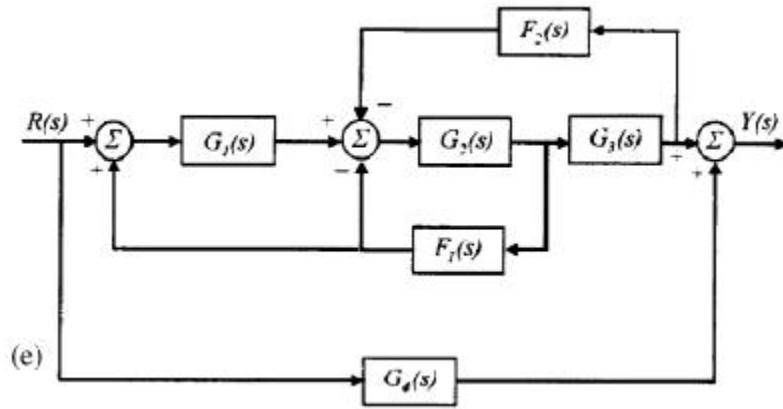
2- Apply the gain formula to the following signal flow graphs and find the over all transfer functions.

(a)

(b)

2

(c)

(d)

(e)
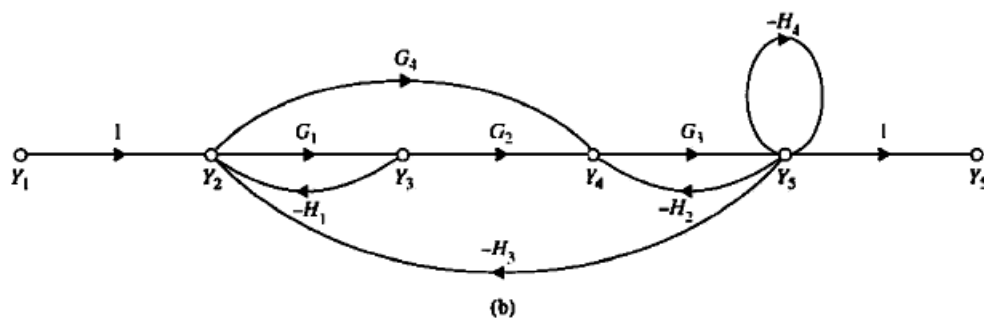
3- Show that the two systems shown in Figures (a) and (b) are equivalent.

(a)

(b)

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