## **ECE-205 : Dynamical Systems**

Homework #8

Due: Monday May 6 at 5 PM

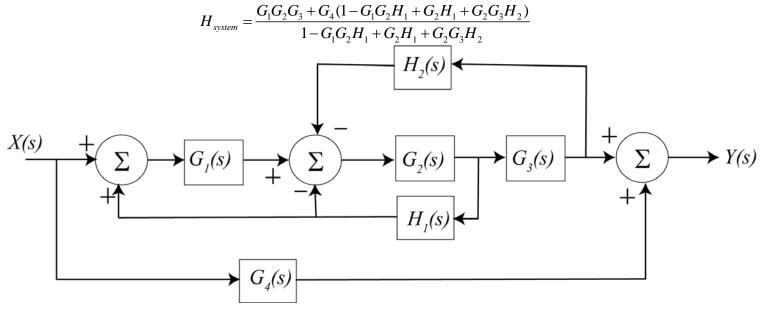
## Read section 6.7 for problems 3-5. You are responsible for this material, but we will not cover it in class.

1) Chapter 6, Problem 6.5

- 2) Chapter 6, problem 6.6
- 3) Chapter 6, Problem 6.7

4) Chapter 6, Problem 6.8

5) For the block diagram shown below, determine a corresponding signal flow diagram and show that the closed loop transfer function is



- 6) Chapter 7, Problem 7.5
- 7) Chapter 7, Problem 7.6
- 8) Chapter 7, Problem 7.1 (correction to solutions: 2 marginal, 1 stable, 2 unstable)
- **9**) Chapter 7, Problem 7.2

10) Chapter 7, Problem 7.3