SEOUL NATIONAL UNIVERSITY SCHOOL OF MECHANICAL AND AEROSPACE ENGINEERING

SYSTEM CONTROL	Fall 2014
HW#2 Mathematical modeling of control systems	Out: September 18, 2014 (Th)
	Due: September 30, 2014 (Tu)

[1] Simplify the block diagram shown in the Figure below and obtain the closed-loop transfer function C(s)/R(s).



[2] Consider a system shown below. Derive the expression for the steady state-error when both the reference input R(s) and disturbance input D(s) are present.



[3] Obtain a state space representation of the system shown below.

