EET 433 – CONTROL SYSTEMS: ANALYSIS AND DESIGN
EXAMPLES PROBLEMS CHAPTER 7

1.- Solve Problem 12 Chapter 7 textbook
2.- Solve Problem 19 Chapter 7 textbook
3.- Solve Problem 28 Chapter 7 textbook
4.- Solve Problem 39 Chapter 7 textbook
5.- Solve problem 9 chapter 7 textbook
6.- Solve problem 14 chapter 7 textbook
7.- Solve problem 26 chapter 7 textbook
8.- Solve problem 29 chapter 7 textbook
9.- For the system in the Figure:

a) Find its System Type
b) Find the steady state error for a unity step input, ramp input and parabolic input
10.- For the following system:

a) Find the error for a step input and a step disturbance
b) Find the error for a ramp input and a ramp disturbance

Note.- In both cases, consider the inputs unity

11.- We want to obtain an error of 1/6000 when \( r(t) = 10 \, t \, u(t) \) in the following system.

Design \( A \) and \( n \) to achieve the error specifications