Quiz 2



Mon March 11 Spring 2019

Problem 1

Given a differential equation

$$\ddot{y} + 7\ddot{y} - 16\ddot{y} + 3\dot{y} + 12y = 2u - \dot{u} - 4\ddot{u}$$

Write down the transfer function $\frac{Y(s)}{U(s)}$ and state space representation of the system.

$$\dot{x} = Ax + Bu$$

$$y = Cx + Du$$