

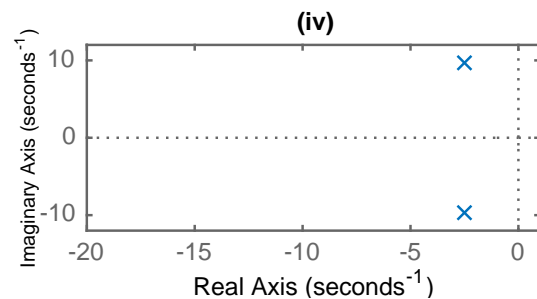
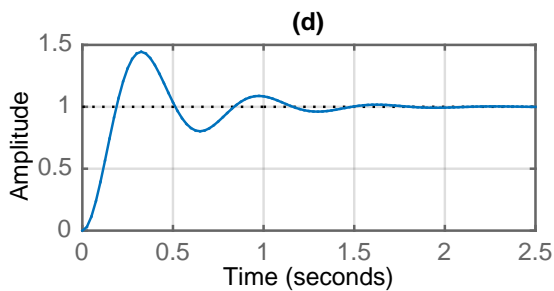
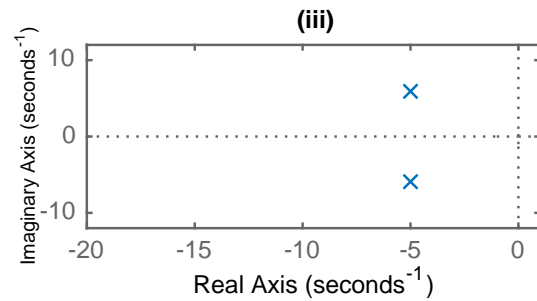
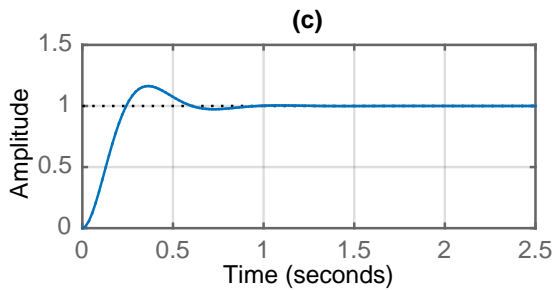
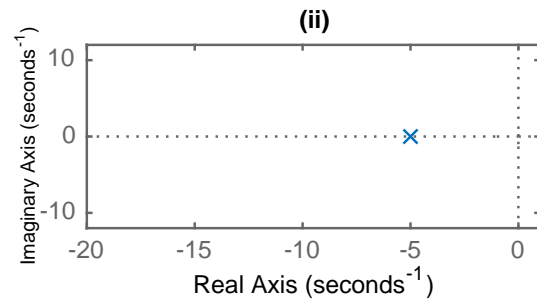
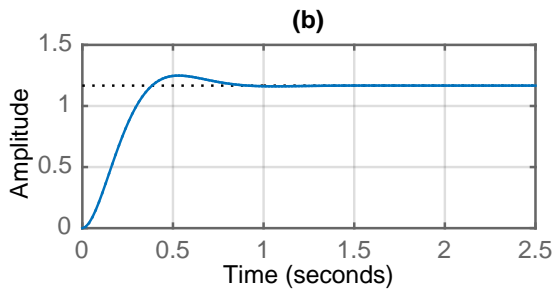
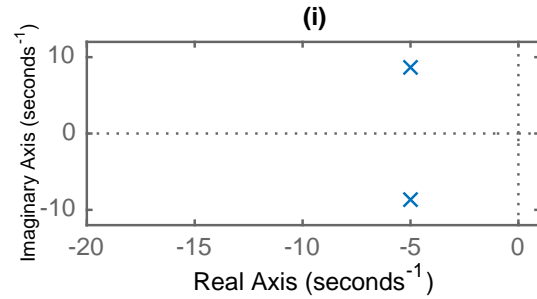
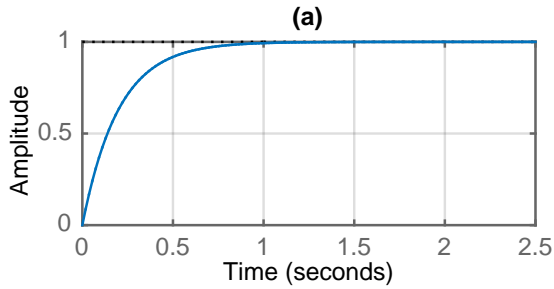
# EENG307: Intro to Feedback Control

Fall 2020

Homework Assignment #6

Quiz #3

Quiz Question Friday: Match the step response with the plot of the system poles in the complex plane. Mark on the plots the features of the step response that allow you to estimate the poles, and the features of the poles that allow you to estimate the step response.



(a) (a) ↔ (ii); (b) ↔ (iii); (c) ↔ (i); (d) ↔ (iv)

(b) (a) ↔ (ii); (b) ↔ (i); (c) ↔ (iii); (d) ↔ (iv)

(c) (a) ↔ (ii); (b) ↔ (iv); (c) ↔ (i); (d) ↔ (i)

(d) (a)  $\leftrightarrow$  (ii); (b)  $\leftrightarrow$  (iii); (c)  $\leftrightarrow$  (iv); (d)  $\leftrightarrow$  (i)

(e) (a)  $\leftrightarrow$  (ii); (b)  $\leftrightarrow$  (iv); (c)  $\leftrightarrow$  (iii); (d)  $\leftrightarrow$  (i)