EEL 301 Homework #7

Issued: 04.04.2013

Question 1. Solve *Ogata, Problem B-7-2. (Pg. 562)*.

Question 2. Solve *Ogata, Problem B-7-12. (Pg. 562)*. Also sketch the Bode diagram of this $G(s)$.

Question 3. Solve *Ogata, Problem B-7-8. (Pg. 562)*. An example of a unity feedback system is in Fig. 7-157 (Pg. 563).

Question 4. Solve *Ogata, Problem B-7-15. (Pg. 563)*. An example of a unity feedback system is in Fig. 7-157 (Pg. 563).

Question 5. Solve *Ogata, Problem B-7-26. (Pg. 565)*. Refer *Example A-7-16. (Pg. 538)* for similar problem.

Question 6. Solve *Ogata, Problem B-7-23. (Pg. 564)*. An example of a unity feedback system is in Fig. 7-157 (Pg. 563).

Question 7. Derive the formula for bandwidth of a standard second-order system, *Ogata, Example A-7-17. (Pg. 539)*.