Eskişehir Osmangazi University - Electrical Engineering Department Fundamentals of Control Systems Midterm Examination - Summer 2016

All answers must be written in the appropriate neighborhoods of the questions. Anything written elsewhere will not be graded. Use the back side of the exam sheet if you need scratch paper. Duration: 65 min., Calculator is allowed, An A4 size sheet (both sides for any content) is allowed.



Question 4.

A linear time invariant system has the transfer function

$$\frac{9}{s^2 + 5s + 11}$$

Find the peak value and steady state value of its output if the input signal is step function with amplitude 12.

Peak value of output= 10.09 Steady state value of output=9.82

Less than 1% error in the results are tolerated.

Good Luck A. Karamancıoğlu