

EE 380-1 Control Engineering I, Quiz-5

Form-A

Dr. Ahmad A. Masoud, date: Saturday, November 29 2007

Student name:

Number:

Find the conditions, if possible, on the free parameter K so that the system having the transfer function shown below is stable:

$$\frac{1}{(S^4 + K \cdot S^3 + S^2 + S + 1)}$$

EE 380-1 Control Engineering I, Quiz-5

Form-B

Dr. Ahmad A. Masoud, date: Saturday, November 29 2007

Student name:

Number:

Find the conditions, if possible, on the free parameter K so that the system having the transfer function shown below is stable:

$$\frac{1}{(S^4 + S^3 + S^2 + S + K)}$$