

LE 333 Assignment #5

1. Find the following matching networks used to match a load impedance $Z_L = 100 + j80 \, \Omega$ to a $75 \, \Omega$ line:
 - a) single shunt open-circuited stub
 - b) single shunt short-circuited stub
 - c) single series open-circuited stub
 - d) single series short-circuited stub
 - e) quarter-wavelength transformer
2. Design a four-section binomial matching transformer to match a $12.5 \, \Omega$ load to a $50 \, \Omega$ line.
3. Repeat problem 2 with Chebyshev transformer.