

## ECE207 Elements of Electrical Engineering Selected Answers for HW # 5

5 – 1

b)  $VR = 7.81\%$

5 – 2

a)  $\mathbf{Z}_{source} = 5.8 + j18.85 \Omega$

b)  $\mathbf{S}_{source} = 730.1/\underline{72.9} \text{ VA}$

5 – 3

$X = 0.4875 \Omega \quad R_C = 120 \Omega$

5 – 4

b)  $\mathbf{V}_p = 656/\underline{3.6} \text{ V}$

**Don't forget to show all your work.**

The grader will give no partial credit for unsupported work. Even less will be given for work that does not lead to the answer given in your homework.