

ECE207 Elements of Electrical Engineering
Selected Answers for HW # 3

3 – 1

- b) $VR = 6.49\%$
- c) $\eta = 97.02\%$

3 – 2

- b) $VR = 12.75\%$

3 – 3

- a) $V_{bc} = 4160/270 \text{ V}$
- c) $P_{\text{load}} = 519.2 \text{ kW}$
- d) $C = 16.04 \text{ } \mu\text{F/ph}$

Remember: Phasor voltages and currents are in RMS.

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.