

EE341 Sp05
Project Part A

Choose $V_{b1}=480V$, $S_b=1000kVA$:

Part I:

	per-unit	actual	
V2	0.887/_-16.87	12239.698/_-16.87	V
V3	0.904/_-23.11	433.824/_-23.11	V
V4	0.881/_-17.08	12159.029/_-17.08	V
Pgen	3.631	3631.160	kW
Qgen	1.124	1124.195	kVar

Part II:

	per-unit	actual	
V2	0.970/_-16.31	13386.389/_-16.31	V
V3	1.006/_-21.71	483.059/_-21.71	V
V4	0.965/_-16.49	13312.724/_-16.49	V
Qc2	-0.697	-697.000	kVar
Qc3	-0.120	-120.000	kVar
Pgen	3.623	3622.941	kW
Qgen	0.274	274.114	kVar