3.1
1: R
2: Inductor
3: Gen
4: Cap

3.2
A' leads A by 120°
(both sides plus sequence).

3.3
LN Voltages are in phase.

(one way to solve)
Problem 3.2 page 5c2-5c3.

6 pts.

Neg. Sec.
(opposite shift of bus V, assumed pos. sec.)

Page 6

Assume pos. sec.

hence $V_{A'N} = 90° + V_{AN}$ 120°
$V_{B'N} = 90° + V_{BN}$ 120°
$V_{C'N} = 90° + V_{CN}$ 120°

Problem 3.3 page 5c2-5c3

6 pts.

Other connections are possible.