## BASICS OF ELECTRICAL CIRCUITS

## Midterm II

- 1. (- **pts** ) For the circuit given in Figure 1, obtain the equations to analysis the circuit using Chord (Line) current method such that unknown variables are  $i_3$  and  $i_4$  ( $V_6 = \alpha i_1$ ).
- 2. (- **pts** ) For the circuit given in Figure 2, obtain the equations to analysis the circuit using Generalized Branch Voltages method such that unknown variables are  $V_1$  and  $V_2$  ( $i_5=i_7$ ).

