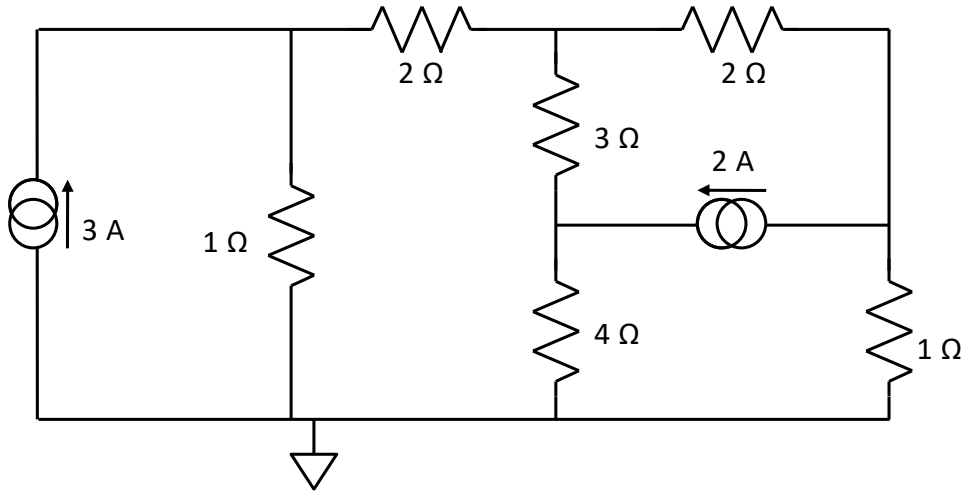
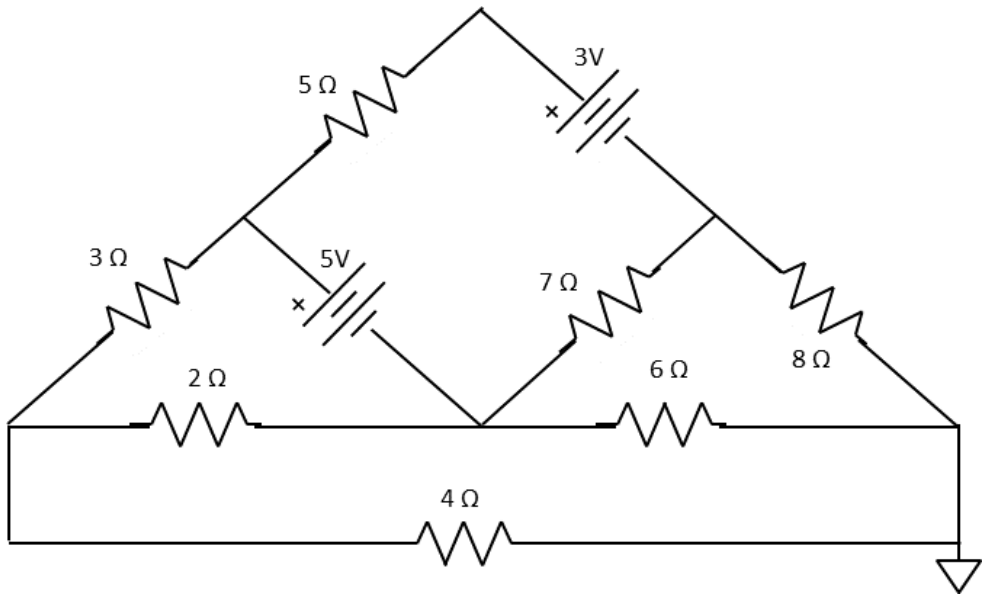
Electronics Engineering Fundamentals
Tutorial Sheet - 3

Solving More Complex Circuits

Question A: Using an appropriate technique, generate the equations that will provide the currents flowing in each part of this circuit. ***NOTE: No marks will be given for solving the resulting simultaneous equations, so stop at that point.*** However, all steps in your derivation of these equations must be clearly identified and explained or marks will be deducted.



Question B: Using an appropriate technique, generate the equations that will provide the currents flowing in each part of this circuit. ***NOTE: No marks will be given for solving the resulting simultaneous equations, so stop at that point.*** However all steps in your derivation of these equations must be clearly identified and explained or marks will be deducted.



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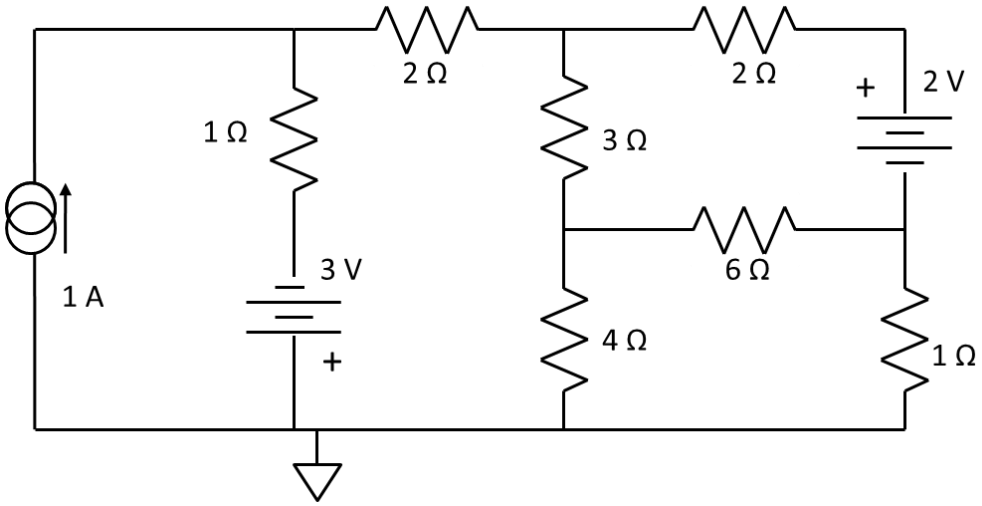
Question C: Using an appropriate technique, generate the equations that will provide the currents flowing in each part of this circuit. ***NOTE: No marks will be given for solving the resulting simultaneous equations, so stop at that point.*** However all steps in your derivation of these equations must be clearly identified and explained or marks will be deducted.



Question D: Using an appropriate technique, generate the equations that will provide the currents flowing in each part of this circuit. ***NOTE: No marks will be given for solving the resulting simultaneous equations, so stop at that point.*** However, all steps in your derivation of these equations must be clearly identified and explained or marks will be deducted.