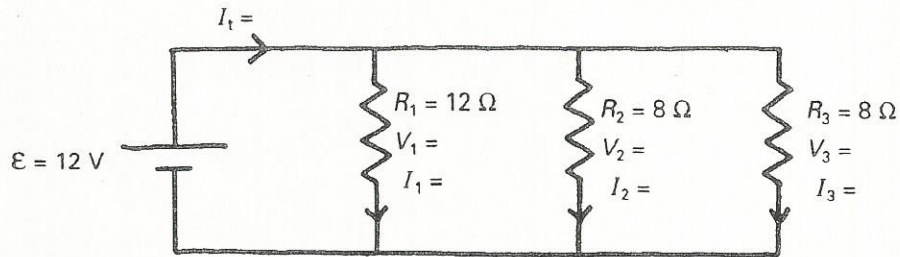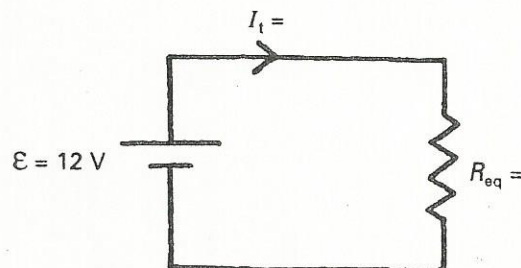Parallel Circuits

Solve for all unknowns:

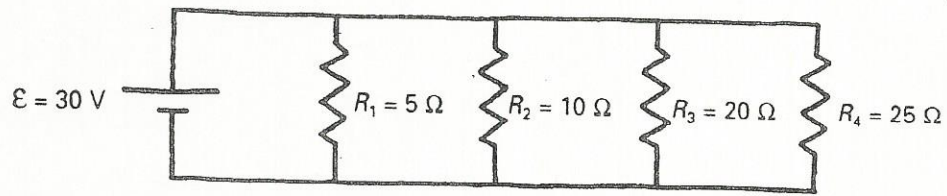1. Circuit composed of three parallel resistors



a) A complete circuit



b) A simple equivalent circuit

2. Do a complete analysis of the following circuit, that is, determine the values for voltage, current and equivalent resistance for the circuit and draw the simple equivalent circuit.



$\mathcal{E} = 30$ V

$R_1 = 5\ \Omega$   $R_2 = 10\ \Omega$   $R_3 = 20\ \Omega$   $R_4 = 25\ \Omega$

*Suggestion: Enter the values on the diagram as you obtain them.*