Name: \_\_\_\_\_ Group: \_\_\_\_ ID No : \_\_\_\_

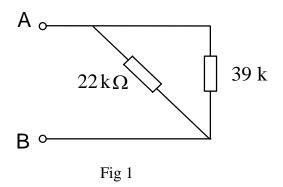


# Future Technologies Industry Cluster College of VE, RMIT University AD026 Electrical Principles EEET 2276

### Tutorial # 02c

## Kerchhoff's Voltage and Current Laws Voltage division in series circuits

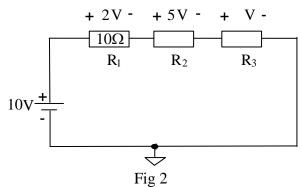
1. For the diagram shown bellow, state the value of the current I which flows in the circuit if the  $V_{AB}$  equals to 12 V. (show all calculation)



Calculation	

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For the circuit shown in Fig 2: 2. a.



Determine the unknown voltage. (i)

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(ii) Determine the values of the unknown resistors ( $R_2$  and  $R_3$ ).

For the circuit shown in Fig 3: b.

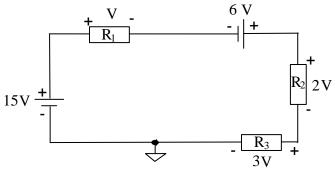


Fig 3 Determine the unknown voltage.

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3. a. For the circuit shown in Fig 4:

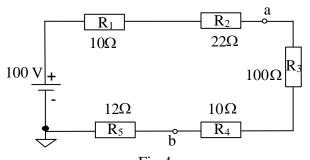
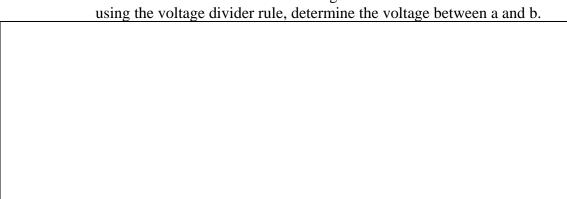


Fig 4



b. For the circuit shown in Fig 5:

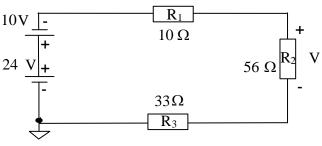


Fig 5

using the voltage divider rule, determine the voltage V.