

### A

# DC fundamentals EE3103 Student workbook 2020 for Ohms and Kirchhoffs laws with Series and parallel exercises



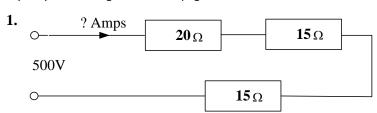
#### Student name

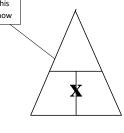
SERIES CIRCUIT CALCULATIONS WORKSHEETS 2A, 2B, 3A

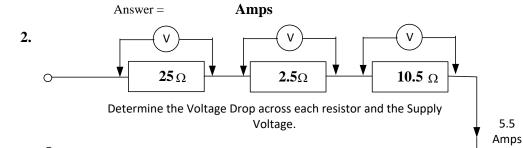
#### Ohms Law. **Work Sheet 2A** Series calculations.

Fill out this triangle now

Determine the unknown value(s). Layout your workings on another page.





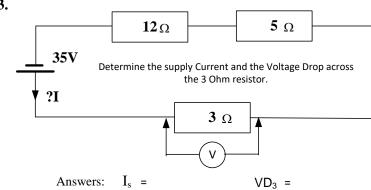


Answers: 
$$V_{25} = V_s =$$

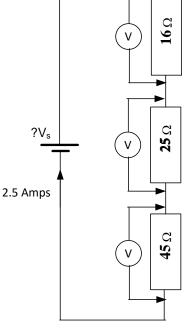
$$V_{2.5} =$$

$$V_{10.5} =$$

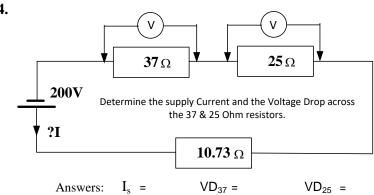
**3.** 







4.



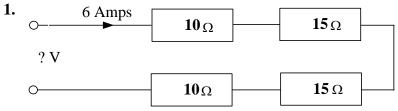
 $VD_{25} =$ 

V<sub>S</sub> =

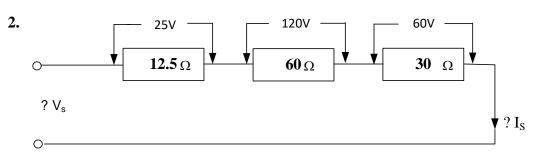
## Ohms Law. Work Sheet 2B Series calculations.

Fill out this triangle now

Determine the unknown value(s). Layout your workings on another page.

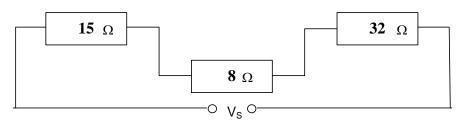






Answers: 
$$V_S = Volts$$
  $I_S = Amps$ 

3.



Determine the total current flow if the Supply Voltage (  $V_S$  ) is:

 $\begin{array}{l} \textbf{4.} \ \, \textbf{50 Volts.} \quad I = \\ \textbf{Volts, what is the current drawn from the supply and what Voltage Drop would be measured across each resistor. Draw the circuit below ( neatly ) and show on it your calculated answers.} \end{array}$ 

