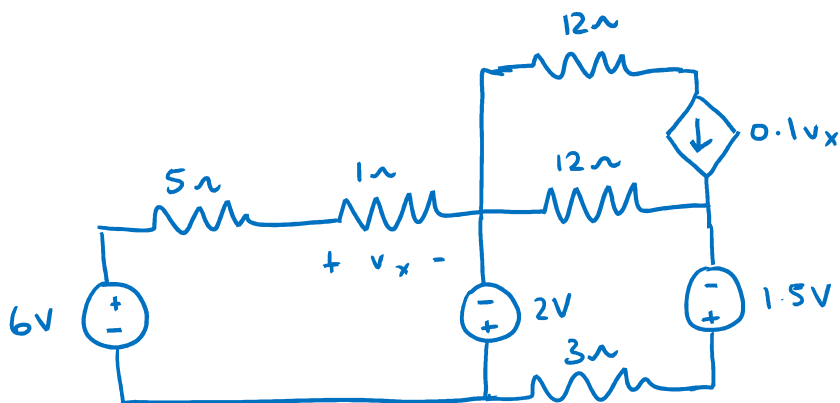


## At Tutorial 3 – Marked Question (29<sup>th</sup> March 2019)

### Chapter 4, Ex 36: Mesh analysis

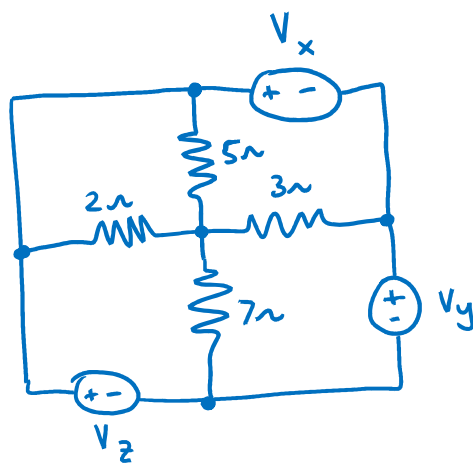
Determine each mesh current in the circuit below.



## At Tutorial 3 – Unmarked Questions (29<sup>th</sup> March 2019)

### Chapter 4, Ex 40: Mesh analysis

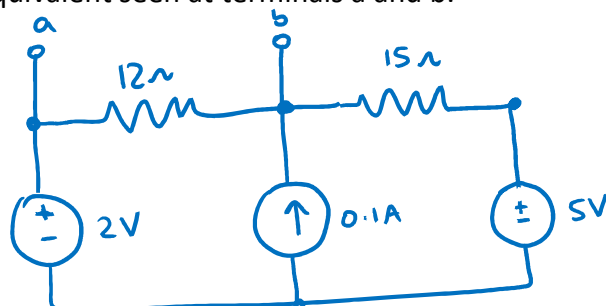
Choose non-zero values for the three voltage sources in the circuit below, such that no current flows through any resistor in the circuit. Recommend using mesh analysis to solve.



### Chapter 5, Ex 45: Norton equivalent (use mesh analysis)

For the network below:

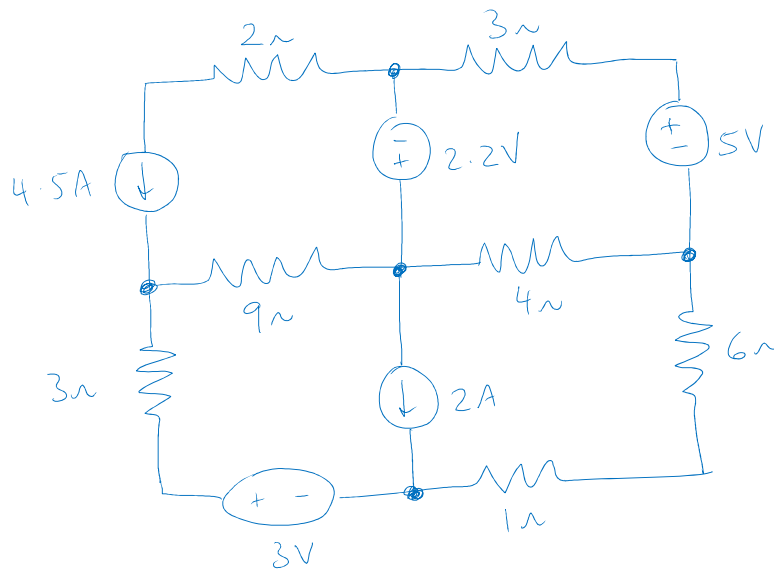
a) find the Norton equivalent seen at terminals a and b.



## Extra Questions for Tutorial 3 (no worked solutions just final answer given)

**Ch 4, Ex 43: Mesh analysis** [Ans: -3.654 W]

Use the supermesh technique to determine the power supplied by the 2.2 V source in the circuit below.



**Ch 5 ex 7: Superposition** [Ans:  $v_x = 10.33$  V]

Apply superposition to the circuit below in order to find the value of  $v_x$ .

