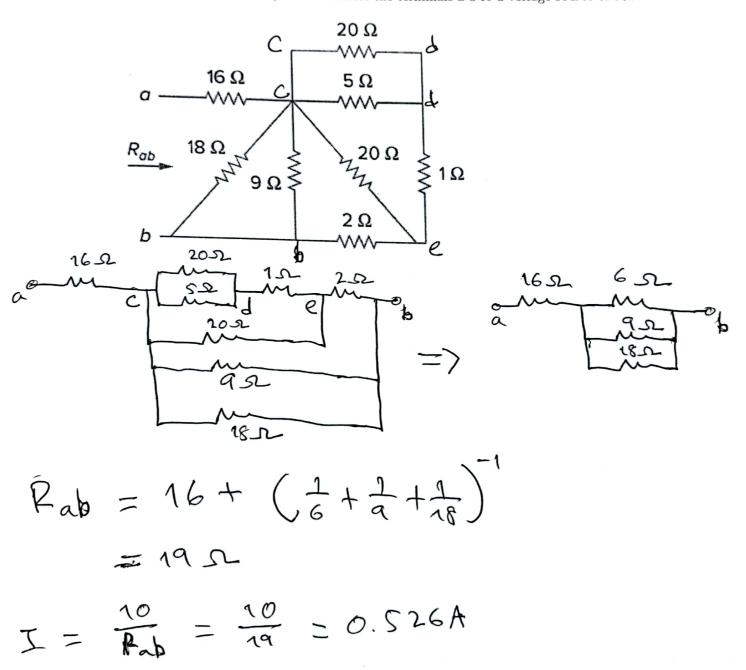
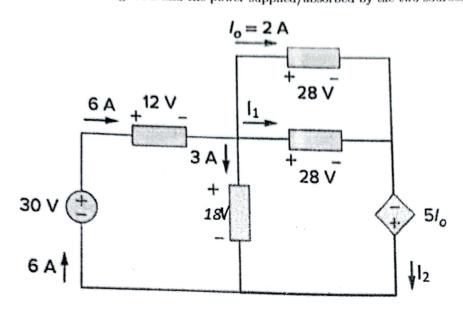
## $\blacksquare$ Question 1 of 2 [CO1] [10 marks]

Determine  $R_{ab}$  and find the current, I if we connect the terminals a-b to a voltage source of 10V.



## lacksquare Question 2 of 2 [CO1] [10 marks]

Determine I1, I2 using KCL and the power supplied/absorbed by the two sources and the element with 3A current.



$$6 = 2 + I_1 + 3$$
or,  $I_1 = 1A$ 

$$P_{SI_0} = -5I_0 \times I_2$$

$$= -5 \times 2 \times 3$$

$$= -30W (supplied)$$