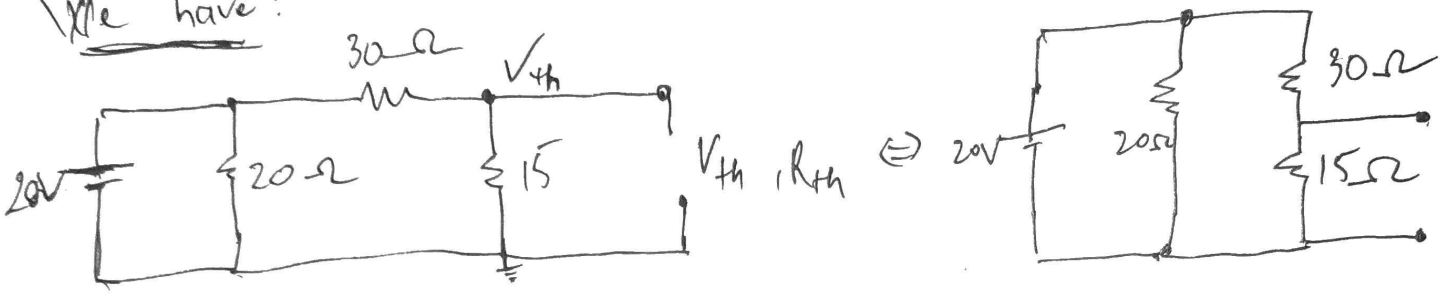
Nhat Ho
105355311

We have:



$$\Rightarrow V_{th} = 20 \cdot \frac{15}{30+15} = \frac{20 \times 15}{45} = \frac{300}{45} = \frac{20}{3}\,(V) \quad (\text{voltage divider})$$

For R_{th}, We have: (Short circuit the source of voltage)

$$\Rightarrow R_{th} = 30\Omega \,//\, 15\Omega = \frac{30 \times 15}{30+15} = 10\,(\Omega)$$

$\Rightarrow$ Thevenin Equivalent: