ap M, hieu moi tien

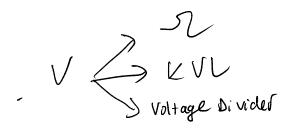
Open/Remove

Short-circut

-

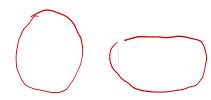
Dim ap /





1

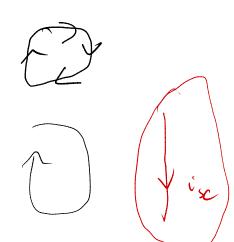
l



Terminals

Vabopm = Vth

R_{th} = 8



Short-cilcut

$$V_{th} = -20i \times 20^{-2} = -500i$$

$$i = \frac{5 - 3V_{th}}{2000} = V_{th} = -5V$$

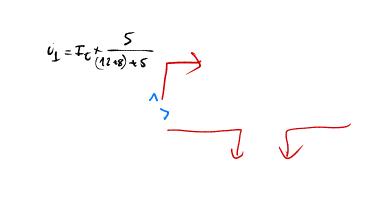
$$V_{th} = V_{th} = -5V$$

$$V_{th} = V_{th} = -5V$$

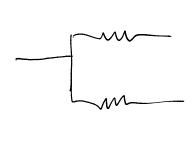
$$V_{th} = V_{th} = -20i = -20 \times \frac{5}{1000} = -0.05 (A)$$

$$= 0.05 (A)$$

$$= 0.05 (A)$$







$$R_{44} = 242 \Rightarrow ij = \frac{72}{2} \Rightarrow 34$$

$$i_{2} = ij \times \frac{5}{12 + 5 + 8} \Rightarrow \sqrt{8} = \sqrt{20} = \sqrt{20} = \sqrt{40} = \sqrt{40}$$

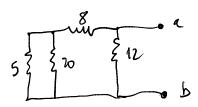
$$\Rightarrow V_{41} = \frac{64 \cdot 8}{10 \cdot 8} = 65$$

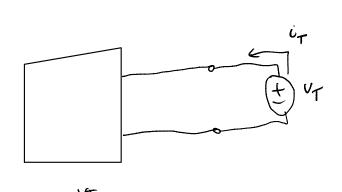
$$\Rightarrow R_{41} = \frac{V_{41}}{E_{50}} = \frac{648}{10 \cdot 8} = 65$$

$$R_{th} = \frac{V_{th}}{i_{SC}}$$

$$R_{th} = \frac{V_{th}}{i_{SC}}$$
Source transformation
$$Source deactivated$$

Only apply for independent source.





Von
ise

Source Transformation

Source Deactivating

Test Source

Short - circuit

$$\hat{C}_{+} = \frac{V_{+}}{25} + 20i$$

$$= \frac{V_{+}}{25} - \frac{10 \times \frac{1}{200}}{2000} = \frac{V_{+}}{25} - \frac{(V_{+})}{200} = \frac{1}{200} = \frac$$

Short-ciruit => V=0 open: ngat tal

=> v=0

Shirt-cicuit

$$\times$$
 \rightarrow open

