Circuito 2:

$V_{R1} = 4.21V$

$V_{R2} = 786\,mV$

$V_{R3} = 142mV$

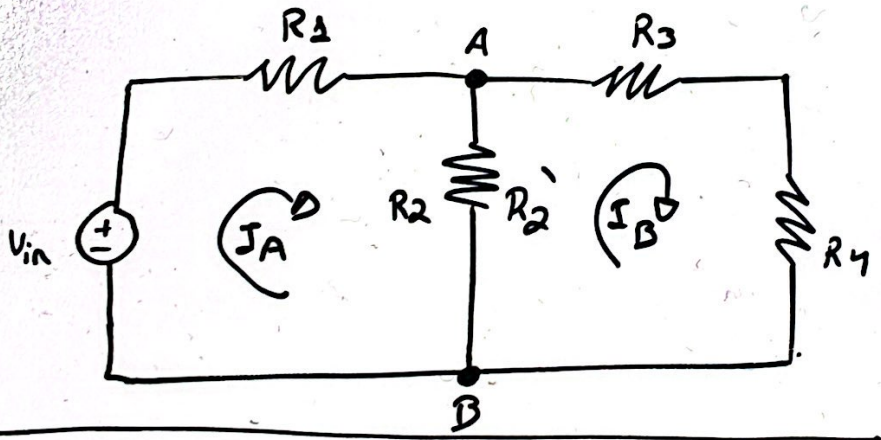
$V_{R4} = 644mV$

$R_1 + R_2 - V_{in} = 0$

$4.21 + 0.786 - 5 = 0.004 = 0$

↑ Malha da esquerda

RPq:



↳ Malha da direita

$V_{R3} = 14mV = 0.14V$

$V_{R4} = 644mV = 0.644V$

$V_{R3} + V_{R4} - V_{R2} = 0$

$0.142 + 0.644 - 0.786 = 0$

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$I_{R1} = 4.21mA$

$I_{R2} = 3.57mA$

$I_{R3} = 644\mu A$

$I_{R4} = 644\mu A$

Nó A:

$$I_{R1} = I_{R2} + I_{R3}$$

$$4.21mA = 3.57mA + 644\mu A$$

$$4.21mA = 4.214mA$$

$$I_{R2} = I_{R3} - I_{R1} = 4.21 - 644 = 0.3566$$
$$= 3.566$$
$$= 3.57$$

Nó B:

$$I_{R2} = I_{R4} + I_{R3}$$

$$3.57mA = 0.644mA + 0.644mA$$

$$3.57mA = 1.288mA$$

$$I_{R4} = I_{R2} - I_{R3}$$

$$644 = 1.288 - 644$$

$$644 = 644$$

$$I_{R1} = I_{R2} + I_{R3} \rightarrow I_{R2} = I_{R1} - I_{R3}$$

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