

* Lista: Revisão

1

a) $48610500078 = 4,8610500078 \times 10^{10}$

b) $0,000078419 = 7,8419 \times 10^{-5}$

c) $0,0000001106732 = 1,106732 \times 10^{-7}$

d) $4567,98 = 4,56798 \times 10^3$

2 $m \Rightarrow 10^{-3}$; $k \Rightarrow 10^3$; $M \Rightarrow 10^6$ $m \Rightarrow 10^{-9}$

a) $891009,209 \overset{\times 10^{-3}}{mA} = 8,91009209 \times 10^2 A$

b) $87434,0129 kV = 8,74340129 \times 10^7 V$

c) $2278,09 M\Omega = 2,27809 \times 10^9 \Omega$

d) $45751,4 \mu C = 4,57514 \times 10^{-5} C$

3 $k \Rightarrow 10^3$; $M \Rightarrow 10^6$

a) $11905,09 \times 10^{11} V = 1190509000 \times 10^6 V$ ou $1190509000 MV$
 $1190509000000 \times 10^3 V$ ou $1190509000000 KV$

4 $m \Rightarrow 10^{-3}$ $\mu \Rightarrow 10^{-6}$

a) $11,09 \times 10^{-9} \Omega = 0,01109 \times 10^{-6} \Omega$ ou $0,01109 \mu \Omega$
 $0,00001109 \times 10^{-3} \Omega$ ou $0,00001109 m\Omega$

5

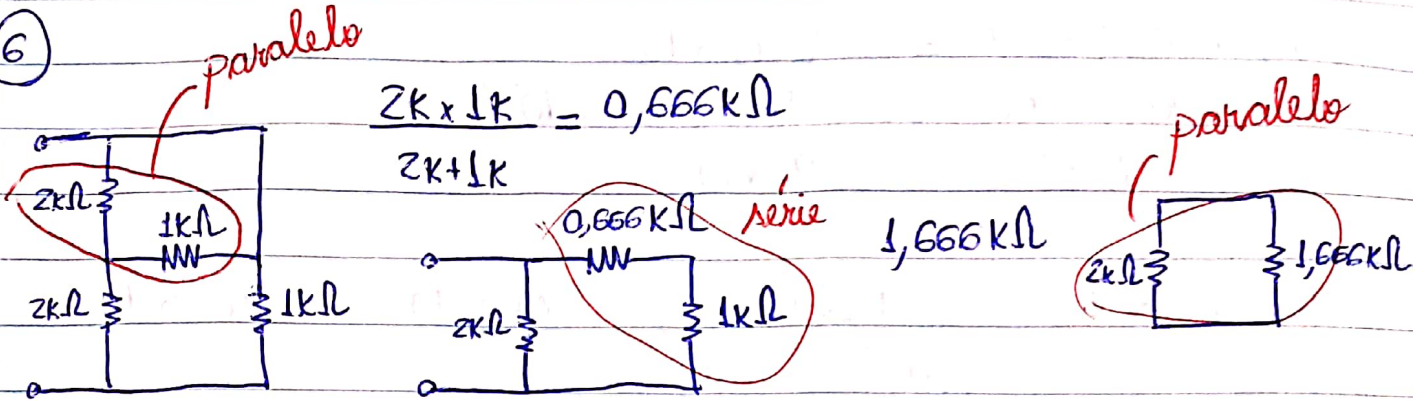
a) $0,000055 \times 200\ 000\ 000 = 5,5 \times 10^{-5} \times 2 \times 10^8 = 10,1 \times 10^3$
 $= 1,01 \times 10^4$

c) $4 \times 10^9 \times 8 \times 10^{10} = 32 \times 10^{19}$
 $3,2 \times 10^{20}$

d) $6000\ 000 \div 300 = \frac{6 \times 10^6}{3 \times 10^2} = 2 \times 10^4$

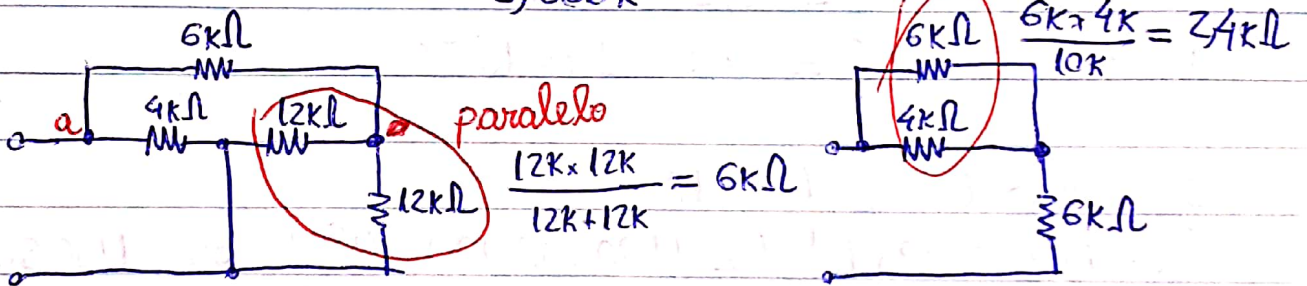
e) $0,000\ 000\ 0009 \div 3000\ 000 = \frac{9 \times 10^{-10}}{3 \times 10^6} = 3 \times 10^{-16}$

6



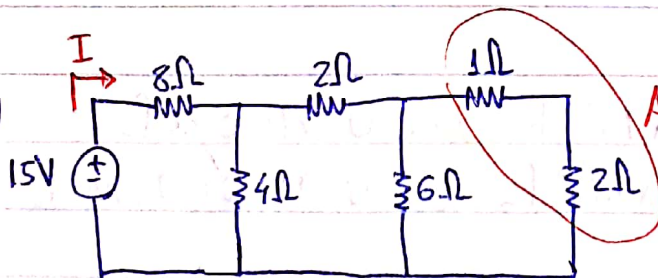
$$R_{eqT} = \frac{2k \times 1,666k}{3,666k} = 0,90889k\Omega$$

le



$$R_{eqT} = 2,4k\Omega + 6k\Omega = 8,4k\Omega$$

7

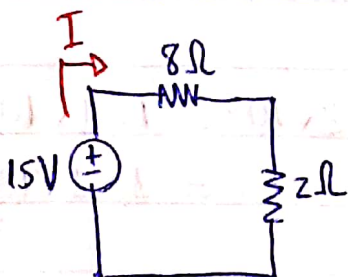


serie: 1+2=3Ω

$$R_{eq1} = \frac{6 \times 3}{6+3} = 2\Omega$$

$$R_{eq2} = 2+2=4\Omega$$

$$R_{eq3} = \frac{4 \times 4}{4+4} = 2\Omega$$

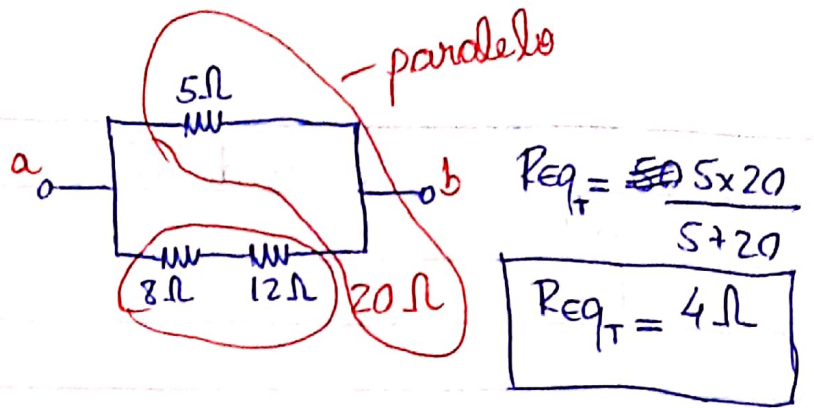


$$R_{eqT} = 8+2$$

$$R_{eqT} = 10\Omega$$

$$I = 15/10 = 1,5A$$

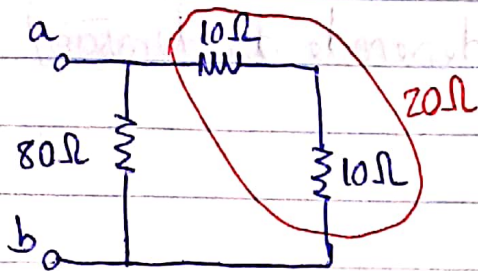
8) $R_{eq1} = \frac{20 \times 30}{20 + 30} = 12 \Omega$



9) $R_{eq1} = \frac{5 \times 20}{5 + 20} = 4 \Omega$; $R_{eq2} = \frac{10 \times 40}{10 + 40} = 8 \Omega$

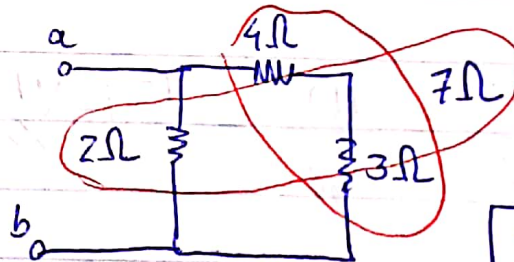
$R_{eqT} = 4 + 8 = 12 \Omega$

10) $R_{eq1} = \frac{20 \times 30}{20 + 30} = 12 \Omega$; $R_{eq2} = \frac{60 \times 12}{60 + 12} = 10 \Omega$



$R_{eqT} = \frac{20 \times 80}{20 + 80} = 16 \Omega$

10) $R_{eq1} = \frac{5 \times 20}{5 + 20} = 4 \Omega$

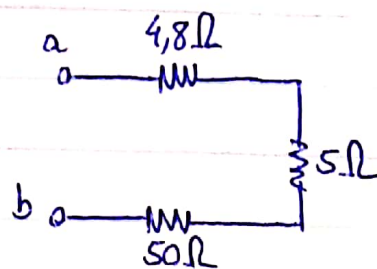


$R_{eqT} = \frac{2 \times 7}{2 + 7} = 1,55 \Omega$

11) $R_{eq1} = \frac{20 \times 30}{20 + 30} = 12 \Omega$

$R_{eq2} = \frac{10 \times 40}{10 + 40} = 8 \Omega$

$R_{eq3} = \frac{12 \times 8}{12 + 8} = 4,8 \Omega$



$R_{eqT} = 4,8 + 5 + 50 = 59,8 \Omega$

