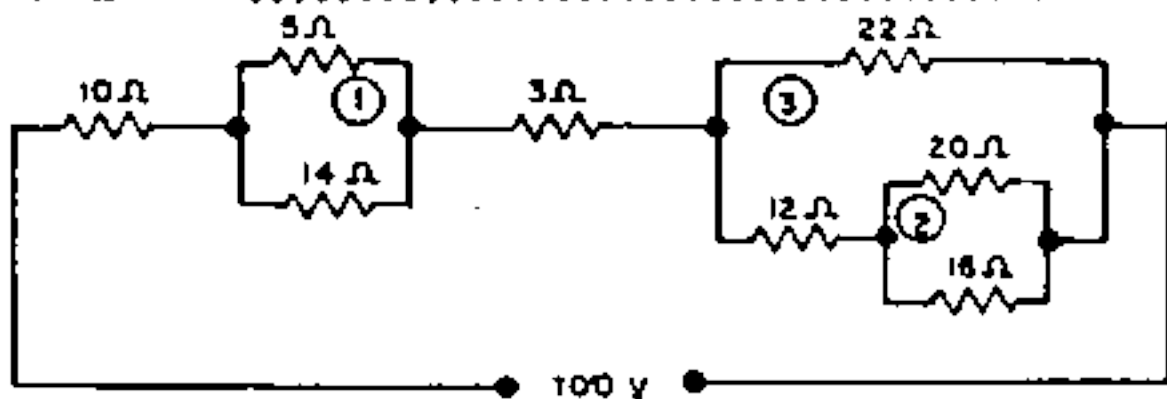


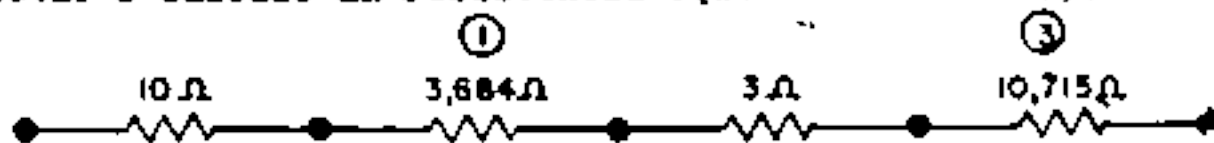
2.2.8.1

A corrente que atravessa o circuito indicado é de:

- a) 4,72 mA
- b) 47,2 mA
- c) 3,65 A
- d) 6 A



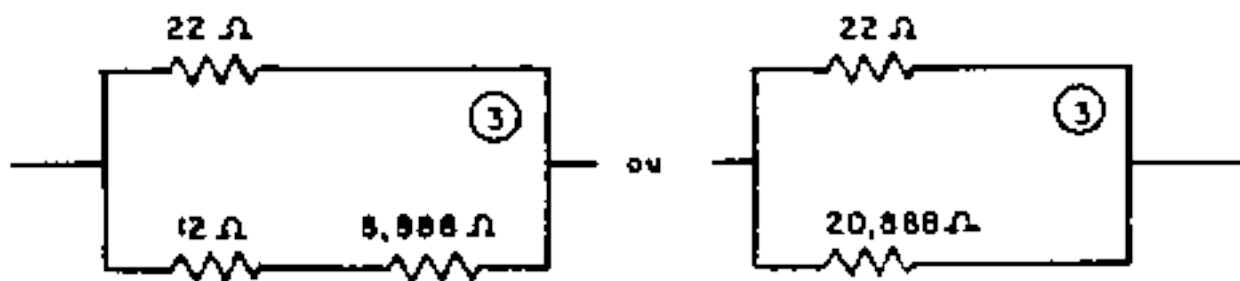
Nota: O cálculo da resistência equivalente dá: 27,4 Ω



$$10 + 3,684 + 3 + 10,715 = 27,4 \Omega$$

Cálculo do paralelo ①: $R_{p1} = \frac{5 \times 14}{5 + 14} = 3,684 \Omega$

" " " ②: $R_{p2} = \frac{20 \times 16}{20 + 16} = 8,888 \Omega$



$$12 + 8,888 = 20,888 \Omega$$

Cálculo do paralelo ③: $R_{p3} = \frac{22 \times 20,888}{22 + 20,888} = 10,715 \Omega$

Aplicando a lei de Ohm:



$$V = RI \Rightarrow I = \frac{V}{R} = \frac{100}{27,4} = 3,6496 \text{ A} = 3,65 \text{ A.}$$