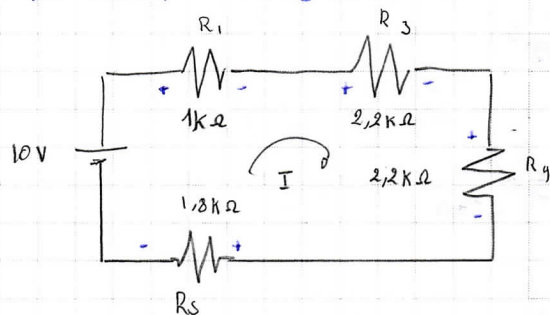Método de mallas   ∠ KV

Super Malla   - Trayectoria 3

Super malla

$$10 = -1000\,i - 2200\,i - 2200\,i - 1800\,i = 0$$

$$-7200\,i = -10$$

$$i = \frac{10}{7200}$$

$$i = 1{,}39 \cdot 10^{-3}$$

$$V_{R_1} = i\,R_1 \qquad\qquad V_{R_3} = i\,R_3 \qquad\qquad V_{R_4} = i\,R_4$$

$$V_{R_1} = (1{,}39 \cdot 10^{-3})(1000) \qquad V_{R_3} = (1{,}39 \cdot 10^{-3})(2200) \qquad V_{R_4} = (1{,}39 \cdot 10^{-3})(2200)$$

$$V_{R_1} = 1{,}39\ [V] \qquad\qquad V_{R_3} = 3{,}06\ [V] \qquad\qquad V_{R_4} = 3{,}06$$

$$V_{RS} = i\,R_S$$

$$V_{RS} = (1{,}39 \cdot 10^{-3})(1800)$$

$$V_{RS} = 2{,}50\ [V]$$

$V_{R_1} = 1{,}39\ [V]$
$V_{R_3} = 3{,}06\ [V]$
$V_{R_4} = 3{,}06\ [V]$
$V_{RS} = 2{,}50\ [V]$