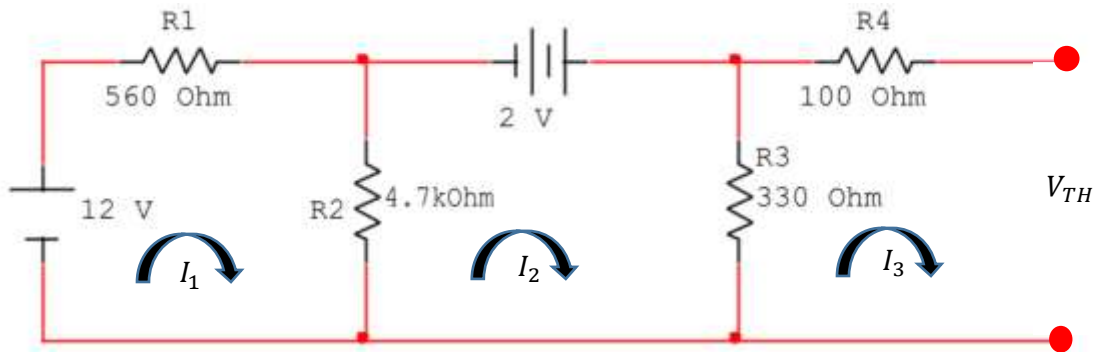


Voltaje de Thevenin



Análisis de mallas

Malla 1

$$5260 I_1 - 4700 I_2 = 12$$

Malla 2

$$5030 I_2 - 4700 I_1 = 2$$

Resultados del sistema de ecuaciones

$$I_1 = 0.016 \text{ A}$$

$$I_2 = 0.015 \text{ A}$$

$$I_3 = 0 \text{ A}$$

Voltaje de Thevenin

$$330 (I_3 - I_2) + 100 I_3 + V_{TH} = 0$$

$$330 I_3 - 330 I_2 + 100 I_3 + V_{TH} = 0$$

$$-330 (0.015) + V_{TH} = 0$$

$$-4.95 + V_{TH} = 0$$

$$V_{TH} = 4.95$$

Corriente de Thevenin

$$I_{TH} = \frac{V_{TH}}{R}$$

$$I_{TH} = \frac{4.95}{1}$$

$$I_{TH} = 4.95$$