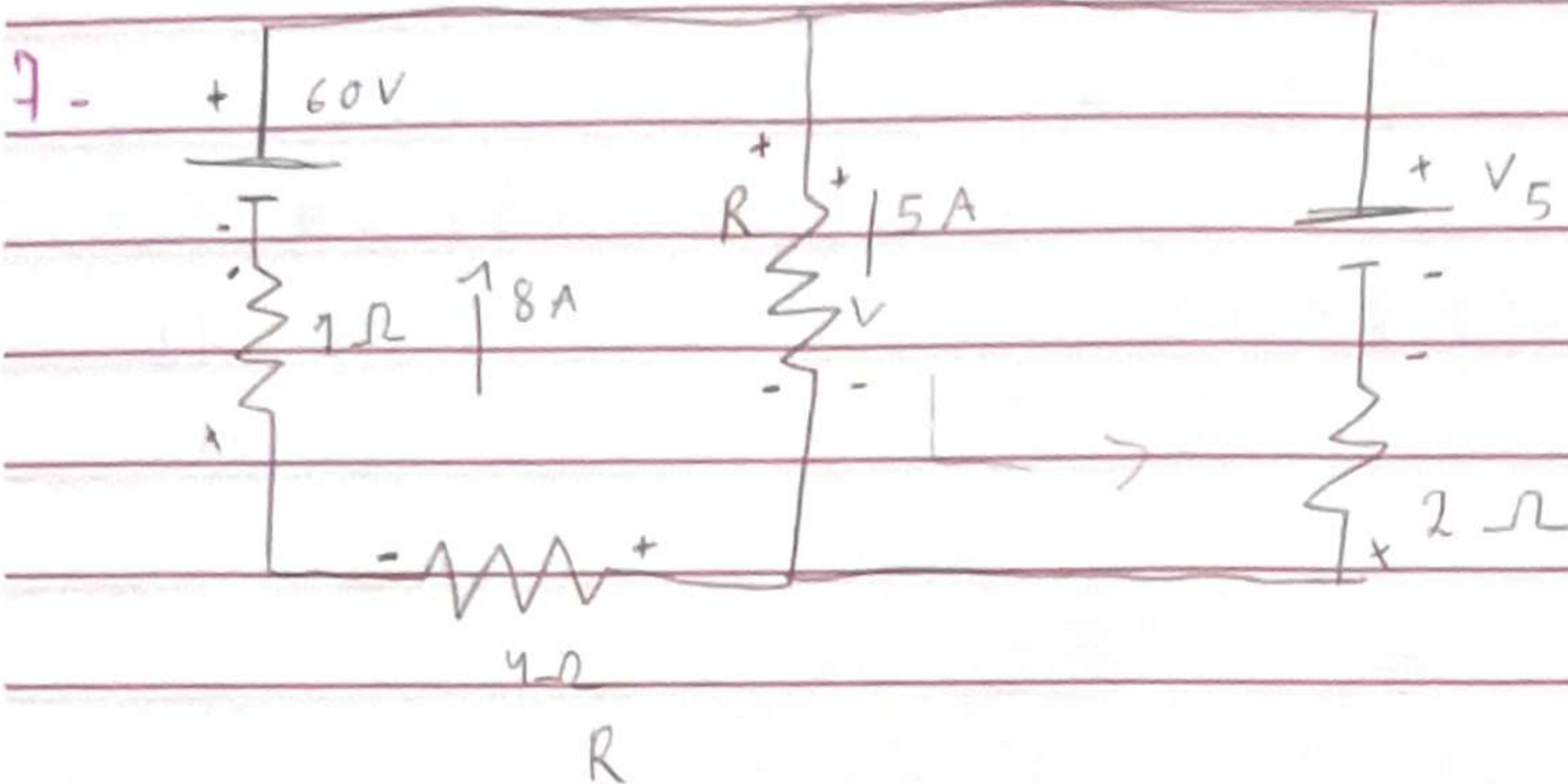


$$6- \quad 30 + i \cdot R_1 + i \cdot R_2 - 40 + i \cdot R_3 = 0$$

$$i \cdot (R_1 + R_2) + i \cdot R_3 = 10$$

$$R_3 = (10 - i(R_1 + R_2)) / i = (10 - 4 \cdot (1,5)) / 4 = 4/4 = 1 \Omega$$



$$+8 \cdot 1 - 60 + 8R + 8 \cdot 4 = 0$$

$$8 - 60 + 8R + 32 = 0$$

$$-20 + 8R = 0$$

$$8R = 20$$

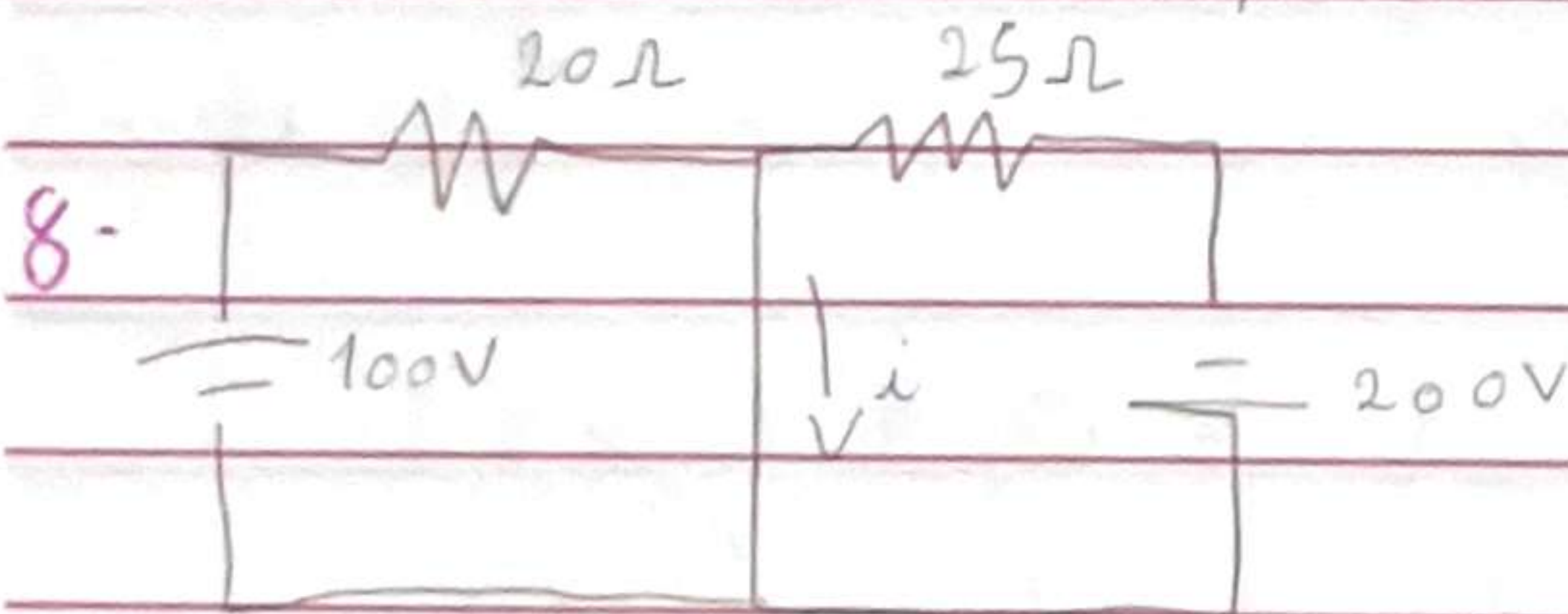
$$R = \frac{20}{8}$$

$$R = 2,5 \Omega$$

$$+2,5 \cdot 5 + 2 \cdot 5 - V_5 = 0$$

$$+12,5 + 10 - V_5 = 0$$

$$V_5 = 22,5$$



$$20 \cdot i - 100$$

$$i = \frac{100}{20}$$

$$20$$

$$i_1 = 5 \text{ A}$$

$$25 \cdot i - 200$$

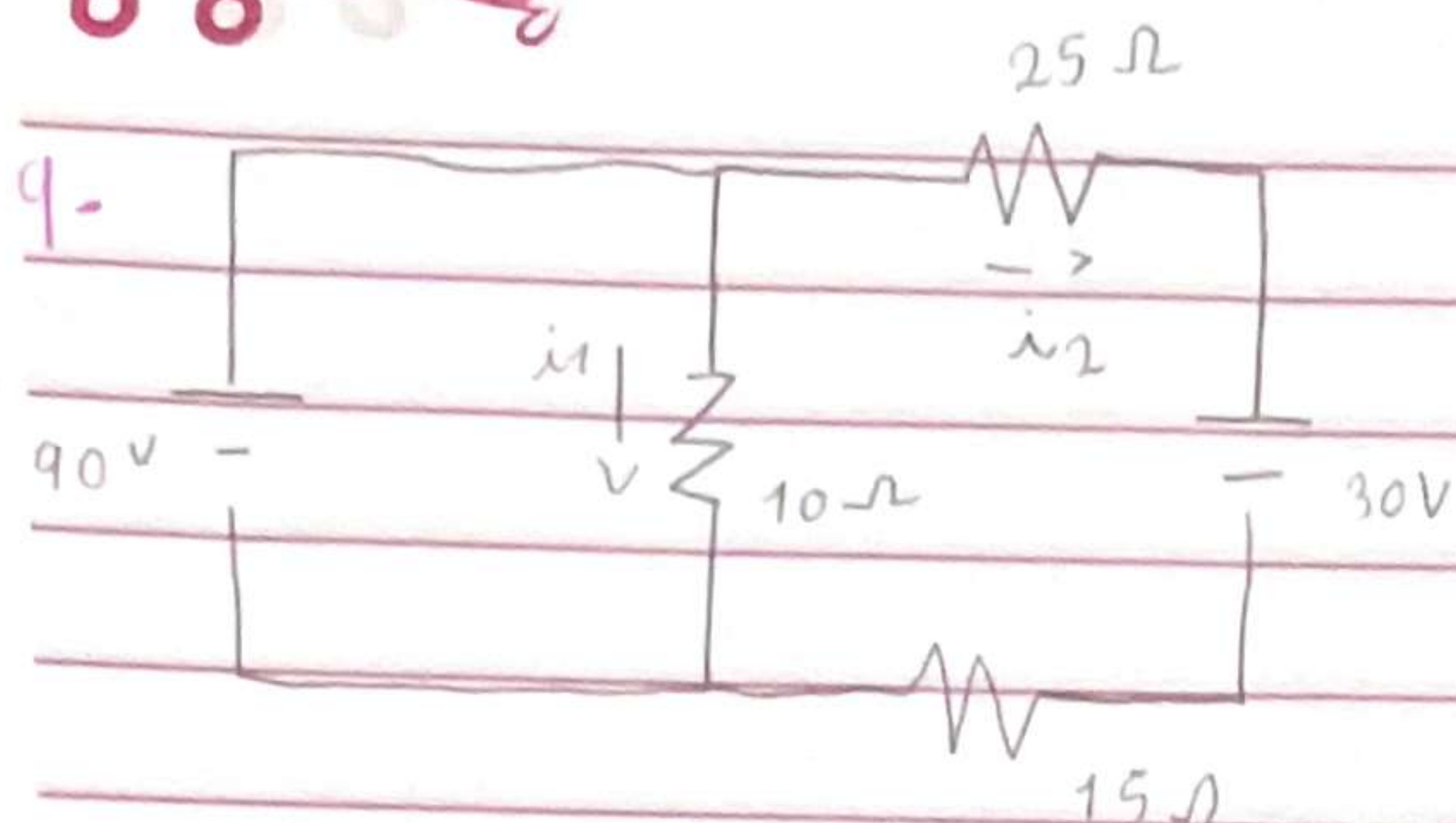
$$i = \frac{200}{25}$$

$$25$$

$$i_2 = 8 \text{ A}$$

$$i_3 = 5 + 8 = 13 \text{ A}$$





$$+ 10 \cdot i - 90$$

$$i = \frac{90}{10}$$

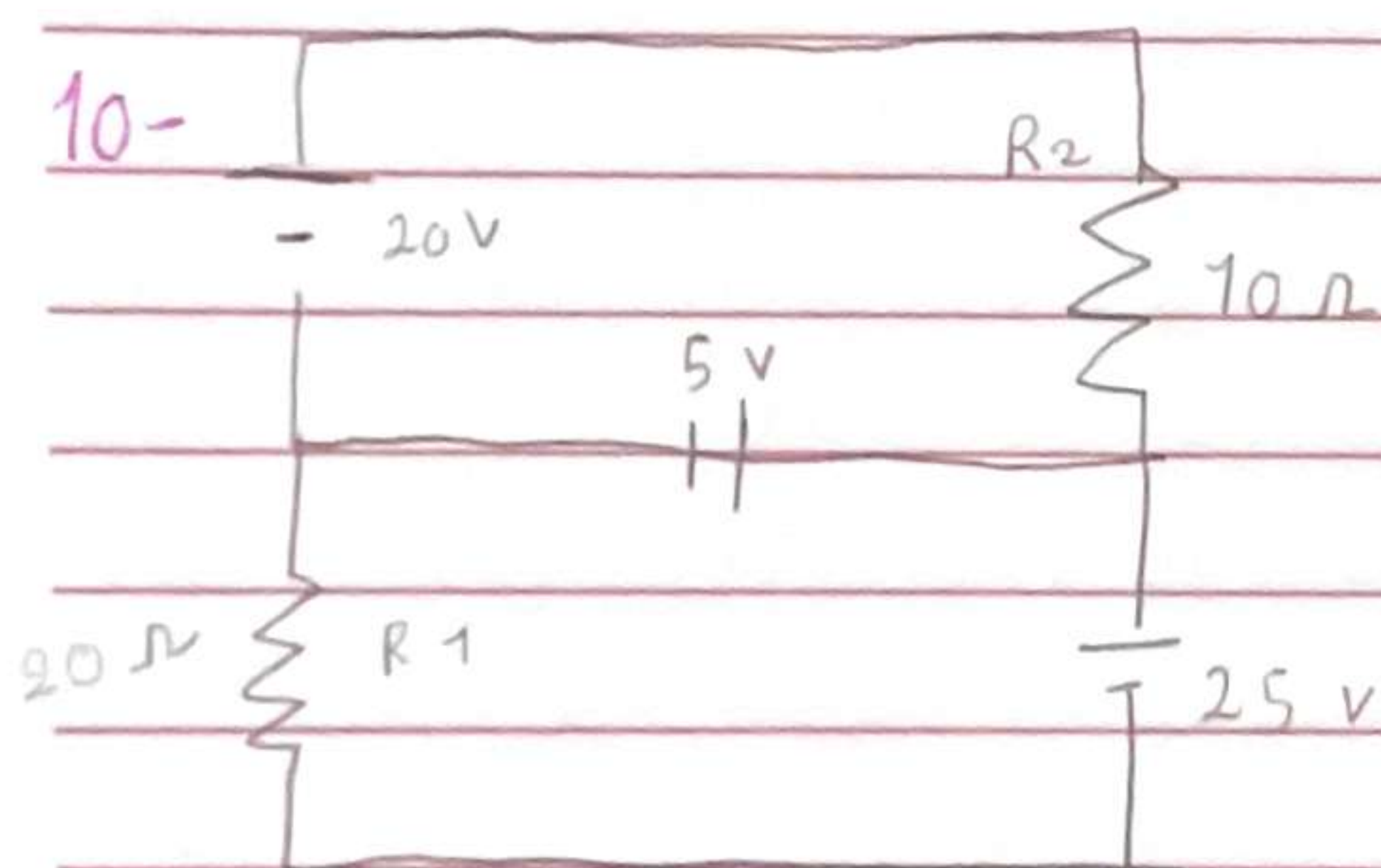
$$i_1 = 9 \text{ A}$$

$$+ 25 \cdot i + 15 \cdot i + 30 \text{ V} - 90 \text{ V}$$

$$i = -\frac{60}{40}$$

$$i_2 = -1,5 \text{ A}$$

$$i_3 = 9 - 1,5 = 7,5 \text{ A}$$



$$P = 10 \cdot 10^3 (1,5 \cdot 10^{-3})$$

$$P = 10 \cdot 10^3 \cdot 2,25 \cdot 10^{-6}$$

$$P = 22,5 \cdot 10^{-1}$$

$$P = 22,5 \text{ mW}$$

$$- 20 \cdot 10 \cdot 5 \cdot 0$$

$$- 5 + 25 + 20 \cdot 0$$

$$- 15 + 10 \cdot 1 = 0$$

$$10 \cdot 1 = 0$$

$$P_2 = 20 \cdot 10^3 \cdot 1 \cdot 10^{-6}$$

$$P_2 = 20 \text{ mW}$$

$$30 + 20 \cdot 1 = 0$$

$$20 \cdot 20$$

$$i_2 = 1 \text{ mA}$$