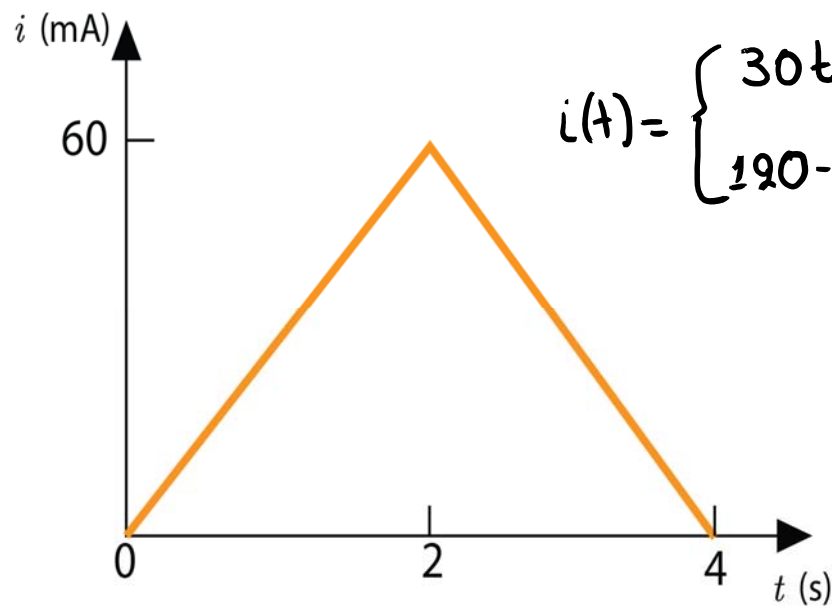
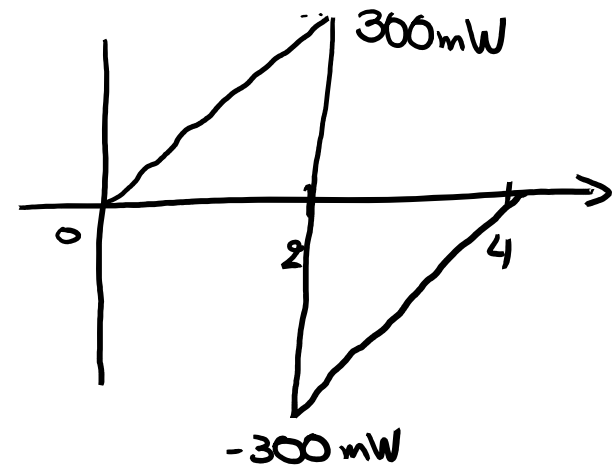


$$v(t) = \begin{cases} 5\text{V} & 0 < t < 2\text{s} \\ -5\text{V} & 2\text{s} < t < 4\text{s} \end{cases}$$

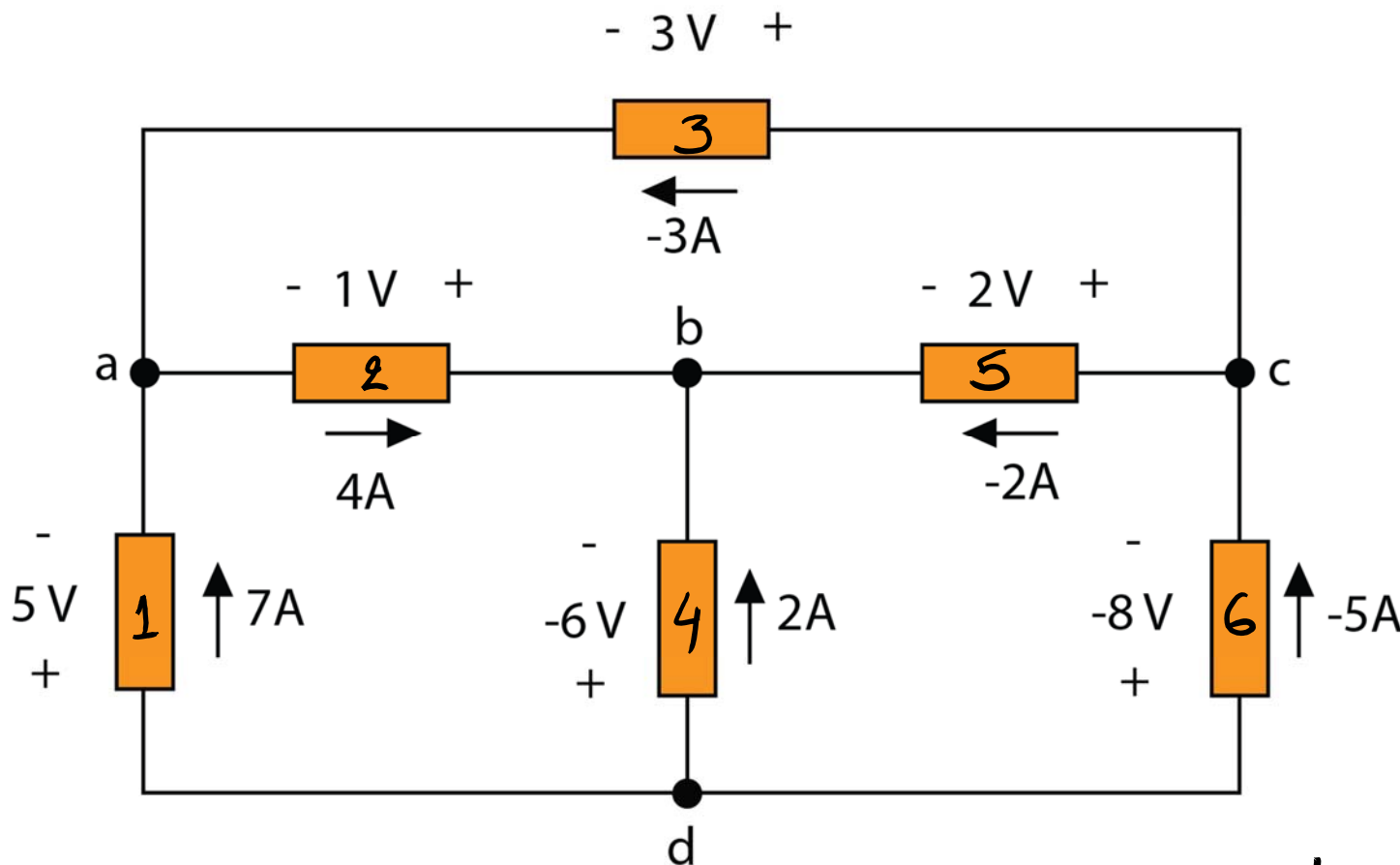
$$p(t) = i(t) \cdot v(t)$$

$$p(t) = \begin{cases} 150t \text{ mW} & 0 < t < 2\text{s} \\ -600 + 150t \text{ mW} & 2\text{s} < t < 4\text{s} \end{cases}$$



$$i(t) = \begin{cases} 30t \text{ mA} & 0 < t < 2\text{s} \\ 120 - 30t \text{ mA} & 2\text{s} < t < 4\text{s} \end{cases}$$

$$W = \int_0^4 p(t) dt = 0 \text{ J} \\ \text{or } 0 \text{ Wh}$$



$$P_1 = 5 \cdot 7 = 35W$$

$$P_2 = 1 \cdot (-4) = -4W$$

$$P_3 = 3 \cdot (-3) = -9W$$

$$P_4 = (-6) \cdot 2 = -12W$$

$$P_5 = 2 \cdot (-2) = -4W$$

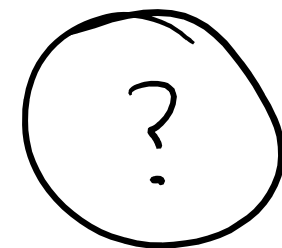
$$P_6 = (-8) \cdot (-5) = 40W$$

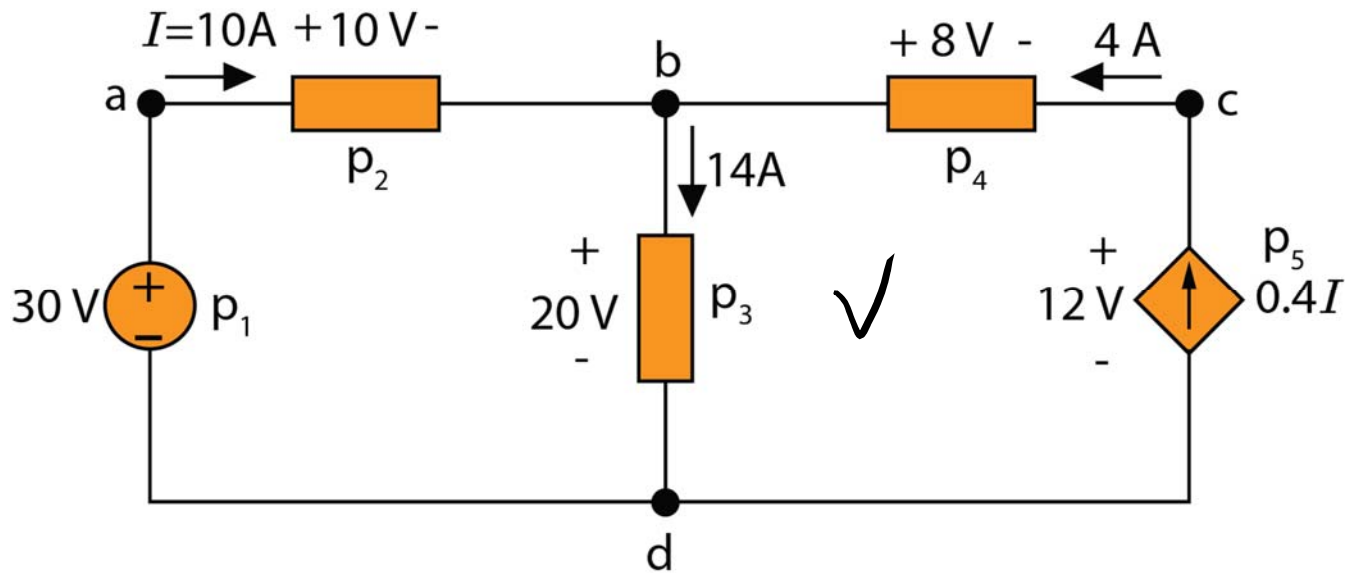
$$\sum P = 0$$

$$35 + 40$$

$$-4 - 9 - 12 - 4$$

$$\neq 0$$





$$P_1 = 30 \cdot (-10) = -300 \text{ W}$$

$$P_2 = 10 \cdot 10 = 100 \text{ W}$$

$$P_3 = 20 \cdot 14 = 280 \text{ W}$$

$$P_4 = 8 \cdot (-4) = -32 \text{ W}$$

$$P_5 = 12 \cdot (-0.4 \cdot 10) =$$

$$= 12 \cdot (-4) = -48 \text{ W}$$

$$\begin{aligned} \sum P &= 280 + 100 - 300 - 32 - 48 \\ &= 0 \end{aligned}$$