

**1.29** Find the power that is absorbed or supplied by the circuit elements in Fig. P1.29.

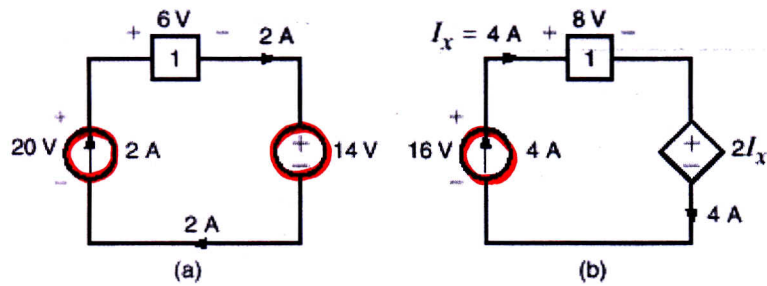


Figure P1.29

**SOLUTION:**

$$\begin{aligned} a) \quad P_{2A} &= -20(2) \\ P_{2A} &= -40 \text{ W} \\ P_{2A} &= 40 \text{ W supplied} \end{aligned}$$

$$\begin{aligned} P_1 &= 6(2) = 12 \text{ W absorbed} \\ P_{14V} &= 14(2) = 28 \text{ W absorbed} \end{aligned}$$

$$\begin{aligned} b) \quad P_{4A} &= 16(-4) = -64 \text{ W} \\ P_{4A} &= 64 \text{ W supplied} \\ P_1 &= 8(4) = 32 \text{ W absorbed} \\ P_{2I_x} &= (2I_x)(4) = 2(4)(4) \\ P_{2I_x} &= 32 \text{ W absorbed} \end{aligned}$$