

**1.28** Determine the power that is absorbed or supplied by the circuit elements in Fig. P1.28.

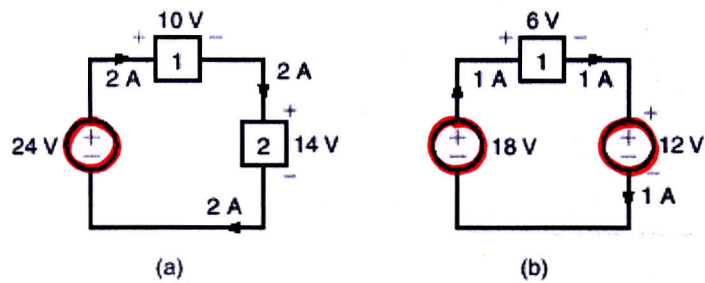


Figure P1.28

**SOLUTION:**

$$a) \quad P_{24V} = (-24)(2) = -48 \text{ W}$$

$$P_{24V} = 48 \text{ W supplied}$$

$$P_1 = 10(2) = 20 \text{ W absorbed}$$

$$P_2 = 14(2) = 28 \text{ W absorbed}$$

$$b) \quad P_{18V} = (-18)(1) = -18 \text{ W}$$

$$P_{18V} = 18 \text{ W supplied}$$

$$P_1 = 6(1) = 6 \text{ W absorbed}$$

$$P_{12V} = 12(1) = 12 \text{ W absorbed}$$