

- 1.26** Two elements are connected in series, as shown in Fig. P1.26. Element 1 absorbs 36 W of power. Is element 2 absorbing or supplying power, and how much?

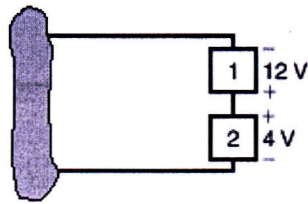


Figure P1.26

SOLUTION:

$$P_1 = 36$$

$$I = \frac{P_1}{V_1}$$

$$I = \frac{36}{12}$$

$$I = 3A$$

$$P_2 = V_2 I = -4(3)$$

$$P_2 = -12W$$

$$P_2 = 12W \text{ supplied}$$