

- 1.24** Two elements are connected in series, as shown in Fig. P1.24. Element 1 supplies 24 W of power. Is element 2 absorbing or supplying power, and how much?

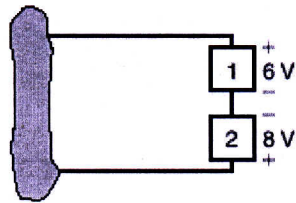


Figure P1.24

**SOLUTION:**

$$P_1 = 24 \text{ W}$$

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

$$I = \frac{24}{6}$$

$$I = 4 \text{ A}$$

$$P_2 = V_2 I$$

$$P_2 = 8(4)$$

$$P_2 = 32 \text{ W absorbed}$$