

P # 14 (cont)

Find I_2 and I_3 :

$$V_2 = I_2 \cdot R_2$$

$$(2V) = I_2 \cdot (3\Omega)$$

$$I_2 = \frac{2}{3} A$$

$$V_3 = I_3 \cdot R_3$$

$$(2V) = I_3 \cdot (1\Omega)$$

$$I_3 = 2A$$

Find P_2 and P_3 :

$$P_2 = I_2 \cdot V_2$$

$$= (\frac{2}{3} A) \cdot (2V)$$

$$P_2 = 1.3W$$

$$P_3 = I_3 \cdot V_3$$

$$= (2A)(2V)$$

$$P_3 = 4.0W$$