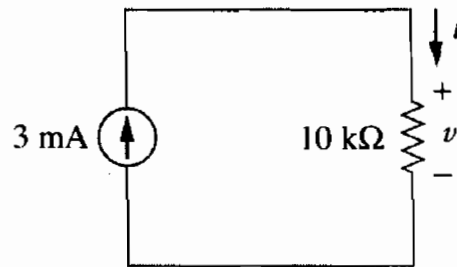


PP2.2 For the circuit shown, calculate the voltage  $v$ , the conductance  $G$ , and the power  $p$ .



Use Ohm's Law (2.3)  $V = iR = 3 \times 10^{-3} (10 \times 10^3)$

$$\underline{\underline{V = 30 \text{ V}}}$$

(2.7)  $G = \frac{1}{R} = \frac{1}{10 \times 10^3} = \underline{\underline{0.1 \text{ mS} = 100 \mu\text{S}}}$

Power (2.10)  $P = Vi = 30 (3 \times 10^{-3}) = \underline{\underline{90 \text{ mW}}}$