

## Solutions to Test 2

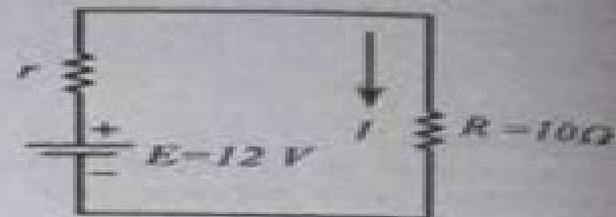
31

$$I = \frac{E}{r + R}$$

$$r = \frac{E}{I} - R = \frac{12}{1.18} - 10$$

$$= 0.169 \Omega$$

$$r = 0.2 \Omega$$



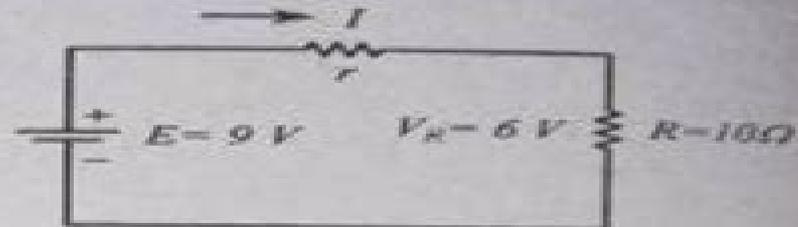
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$$I = \frac{V_R}{R} = \frac{6}{10} = 0.6 \text{ A}$$

$$V_r = E - V_R = 9 - 6 = 3 \text{ V}$$

$$r = \frac{V_r}{I} = \frac{3}{0.6}$$

$$r = 5 \Omega$$



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$$I = \frac{V_R}{R} = \frac{1.3560}{1 \times 10^6}$$

$$I = 1.356 \times 10^{-6} \text{ A}$$

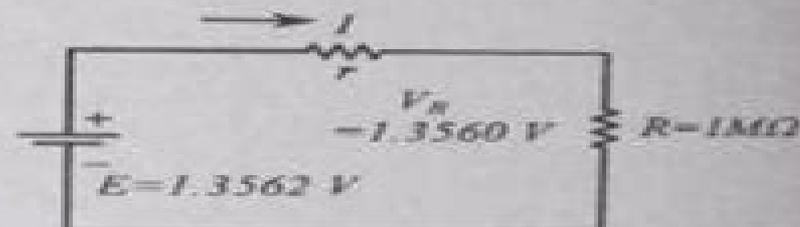
$$V_r = E - V_R$$

$$= 1.3562 - 1.3560$$

$$V_r = 0.0002 \text{ V}$$

$$r = \frac{V_r}{I} = \frac{0.0002}{1.356 \times 10^{-6}}$$

$$r = 147.5 \Omega$$



34

Let:  $r$  = internal resistance per cell.

$$I = \frac{E}{5r + R_L}$$

Substitute conditions:

$$1.5 = \frac{E}{5r + 4}$$

$$E = 7.5r + 6 \Rightarrow \textcircled{1}$$

$$0.75 = \frac{E}{5r + 9}$$

$$E = 3.75r + 6.75 \Rightarrow \textcircled{2}$$

Equate Eq. 1 to Eq. 2:

$$7.5r + 6 = 3.75r + 6.75$$



# Electrical Engineering Solved Problems

**Y Pai**



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