

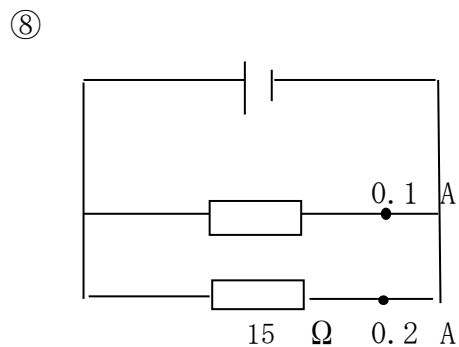
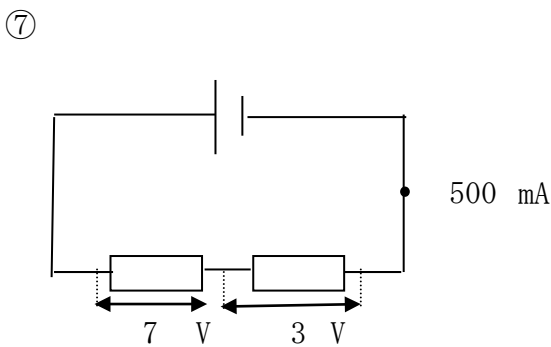
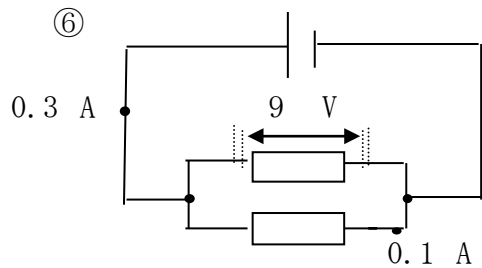
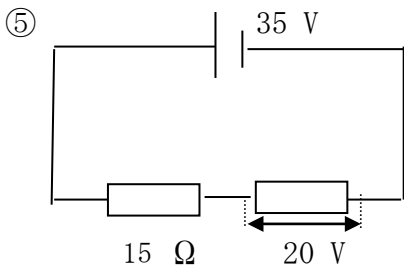
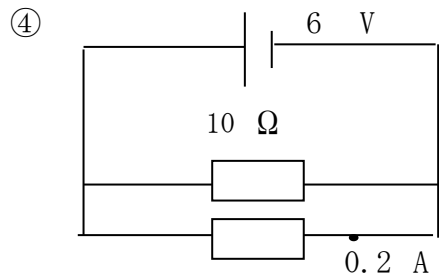
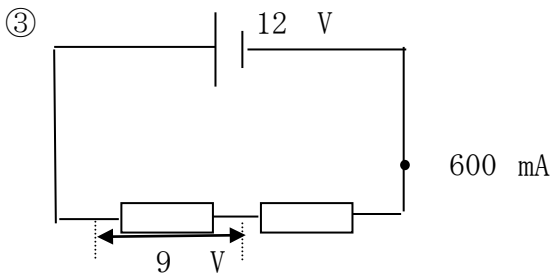
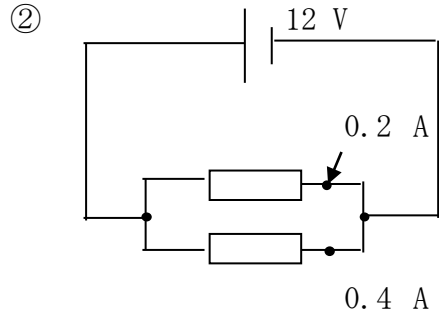
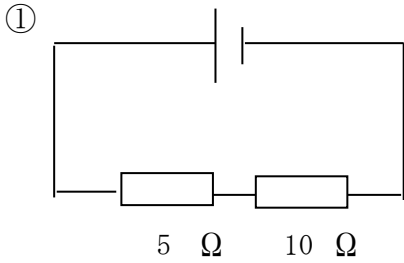
# 回路全体の抵抗

NO. 1

名前

/ 8 点

◆ 次の回路全体の抵抗の大きさを答えなさい。



解答

$$\textcircled{1} \quad 5 + 10 = 15 \quad \Omega$$

$$\textcircled{2} \quad 12 \div (0.2 + 0.4) = 20 \quad \Omega$$

$$\textcircled{3} \quad 12 \div 0.6 = 20 \quad \Omega$$

$$\textcircled{4} \quad 6 \div 10 = 0.6 \text{ A} \quad \leftarrow \text{上の抵抗に流れる電流}$$

$$0.2 + 0.6 = 0.8 \text{ A} \quad \leftarrow \text{全体の電流}$$

$$6 \div 0.8 = 7.5 \quad \Omega$$

$$\textcircled{5} \quad 35 - 20 = 15 \text{ V}$$

$$15 \div 15 = 1 \text{ A} \quad \leftarrow \text{回路全体の電流}$$

$$35 \div 1 = 35 \quad \Omega$$

$$\textcircled{6} \quad 9 \div 0.3 = 30 \quad \Omega$$

$$\textcircled{7} \quad 7 + 3 = 10 \text{ V} \quad \leftarrow \text{全体の電圧}$$

$$10 \div 0.5 = 20 \quad \Omega$$

$$\textcircled{8} \quad 0.2 \times 15 = 3 \text{ V} \quad \leftarrow \text{全体の電圧}$$

$$0.1 + 0.2 = 0.3 \text{ A} \quad \leftarrow \text{全体の電流}$$

$$3 \div 0.3 = 10 \quad \Omega$$