

CHAPTER 9: SERIES, PARALLEL, AND SERIES-PARALLEL CIRCUITS

WORKED SOLUTIONS

(These answers might differ slightly from those given in original questions due to rounding off of numbers.)

Question 1:

Always start by drawing a labelled circuit diagram:



Question 1

- (a) $R = R_1 + R_2 + R_3 = 8.4 + 6.8 + 4.8 = 20 \ \Omega$ (Answer a.)
(b) $I = \frac{E}{R} = \frac{100}{20} = 5 \text{ A}$ (Answer b.)
(c) Voltage drop across R_1 : $U_1 = IR_1 = 5 \times 8.4 = 42 \text{ V}$ (Answer c.)
Voltage drop across R_2 : $U_2 = IR_2 = 5 \times 6.8 = 34 \text{ V}$ (Answer c.)
Voltage drop across R_3 : $U_3 = IR_3 = 5 \times 4.8 = 24 \text{ V}$ (Answer c.)

(You can check these answers by confirming that the sum of the three voltage drops equals the supply voltage.)

Question 3

Always start by drawing a labelled circuit diagram:



Question 3

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CO Houle



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Series-parallel Circuits ,1984

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