Quick test no.2

EEC207: Circuit Analysis / EEC223: Fundamentals of Electrical Engineering

Duration: 20mn

Matricule: CT17076 NB on MCQ questions: read the questions carefully and mark an X only on the letter of the correct answer. IN V=IR R= }

- 1. An electric heater draws 10 A from a 120-V line. The resistance of the heater is:
- (a) 1200Ω
- (b) 120Ω
- (X) 12 Ω
- (d) 1.2Ω
- 2. The current I_o in the figure 1 is:

- (c) 4 A
- (d) 16 A

- 3. The current *I* in the figure 2 is:
- (a) 0.8 A
- (c) 0.2 A
- (d) 0.8 A

- 4. In the circuit in figure 3, V is:
- (a) 30 V
- (b) 14 V
- (c) 10 V
- (M) 6 V

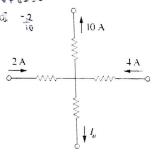


Figure 1

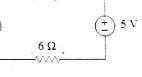


Figure 2

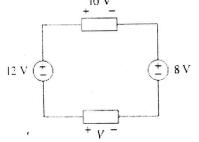
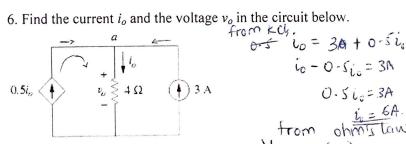


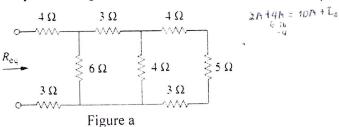
Figure 3

- 5. Ohm's law states that the voltage V across a resistor is directly proportional to the current flowing True b) False through the resistor.



10 - 0-510 = 3N = 4(6) Vo = 24V /

7. By combining the resistors in the figure a, find R_{eq} .



8. Find I and V_{ab} in the circuit of figure b

