

QUESTION 1

(10 MARKS)

1. Study **FIGURE 1** below and determine, with the aid of Kirchhoff's Laws:

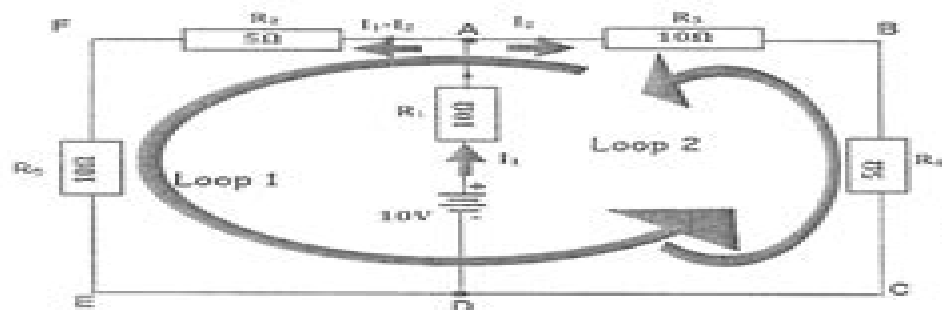


FIGURE 1

- 1.1. The equation for loop 1 (AFEDCBA). Set up the equation by starting at point A and Proceed in the direction of loop 1. (2)

Loop AFEDCBA

$$0 = 5(I_1 - I_2) + 10(I_1 - I_2) - 5I_2 - 10I_2$$

$$0 = 5I_1 - 5I_2 + 10I_1 - 10I_2 - 5I_2 - 10I_2$$

$$0 = 15I_1 - 30I_2 \dots\dots\dots$$

(1)

- 1.2. The equation for loop 2 (ADCBA). Set up the equation by starting at point B and proceed in the direction of loop 2. (2)

Loop ADCBA

$$10 = -10I_1 - 5I_2 - 10I_2$$

$$10 = -10I_1 - 15I_2 \dots\dots\dots$$

(2)

- 1.3. The magnitude of currents I1 and I2 by making use of the Equations in QUESTION 2.1.1 and QUESTION 2.1.2. (4)

(1) ✕ 1: $0 = 15I_1 - 30I_2$

(2) ✕ 2: $20 = -20I_1 - 30I_2$

(1)-(2): $-20 = -35I_1$

$$I_1 = 0.571 \text{ A}$$

Substitute I_1 in (1)

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H Kauffman



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