

QUESTION 1

(10 MARKS)

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

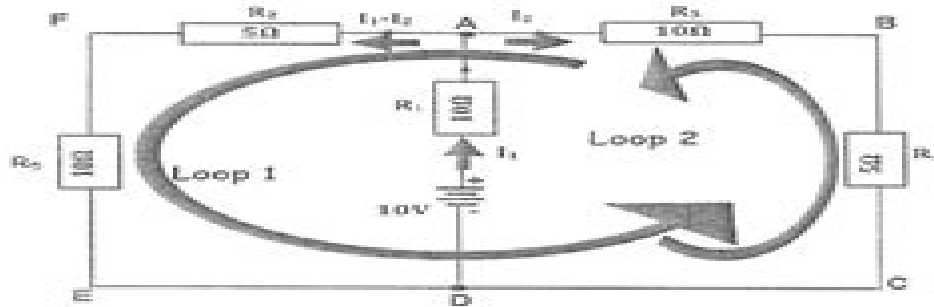


FIGURE 1

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): $-20 = -35I_1$

$$I_1 = 0.571 A$$

Substitute I1 in (1)

Industrial Electronics November 2011 Memorandum

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Schwager, Pascal Pagani, Daniel
Schneider**



Industrial Electronics November 2011 Memorandum:

Whispering the Strategies of Language: An Mental Quest through **Industrial Electronics November 2011 Memorandum**

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Table of Contents Industrial Electronics November 2011 Memorandum

1. Understanding the eBook Industrial Electronics November 2011 Memorandum
 - The Rise of Digital Reading Industrial Electronics November 2011 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Industrial Electronics November 2011 Memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Industrial Electronics November 2011 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Industrial Electronics November 2011 Memorandum
 - Personalized Recommendations

- Industrial Electronics November 2011 Memorandum User Reviews and Ratings
- Industrial Electronics November 2011 Memorandum and Bestseller Lists
- 5. Accessing Industrial Electronics November 2011 Memorandum Free and Paid eBooks
 - Industrial Electronics November 2011 Memorandum Public Domain eBooks
 - Industrial Electronics November 2011 Memorandum eBook Subscription Services
 - Industrial Electronics November 2011 Memorandum Budget-Friendly Options
- 6. Navigating Industrial Electronics November 2011 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Industrial Electronics November 2011 Memorandum Compatibility with Devices
 - Industrial Electronics November 2011 Memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Industrial Electronics November 2011 Memorandum
 - Highlighting and Note-Taking Industrial Electronics November 2011 Memorandum
 - Interactive Elements Industrial Electronics November 2011 Memorandum
- 8. Staying Engaged with Industrial Electronics November 2011 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Industrial Electronics November 2011 Memorandum
- 9. Balancing eBooks and Physical Books Industrial Electronics November 2011 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Industrial Electronics November 2011 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Industrial Electronics November 2011 Memorandum
 - Setting Reading Goals Industrial Electronics November 2011 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Industrial Electronics November 2011 Memorandum
 - Fact-Checking eBook Content of Industrial Electronics November 2011 Memorandum

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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