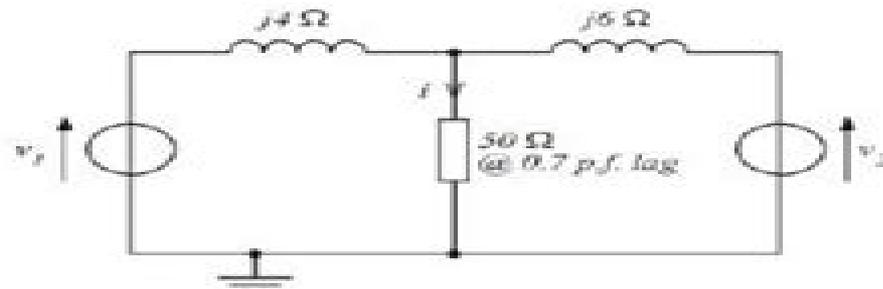


QUESTION 1

Determine current flowing in the load by

- (i) Applying Thevenin's theorem
- (ii) Applying the superposition theorem
- (iii) By transforming the two voltage sources and their associated reactance into current sources (and thus form a pair of Norton generators)



$$v_1 = \sqrt{2} \times 415 \cos(100\pi t) \quad \text{volts}$$

$$v_2 = \sqrt{2} \times 415 \sin(100\pi t) \quad \text{volts}$$

Solution

Part a

The root mean square values are given as,

$$V_1 = 415 \angle 90^\circ$$

$$V_2 = 415 \angle 0^\circ = 415$$

The load impedance,

$$Z_L = 50 \text{ ohms } @ 0.7 \text{ pf}$$

Converting into a polar representation,

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Ying-Ying Zheng



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Table of Contents Hnc Electrical Engineering Exam Questions

1. Understanding the eBook Hnc Electrical Engineering Exam Questions
 - The Rise of Digital Reading Hnc Electrical Engineering Exam Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Hnc Electrical Engineering Exam Questions
 - 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 Hnc Electrical Engineering Exam Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hnc Electrical Engineering Exam Questions

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

- Fact-Checking eBook Content of Hnc Electrical Engineering Exam Questions
 - 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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