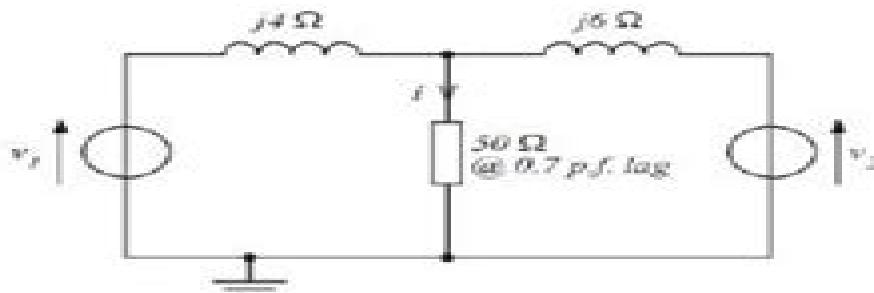


QUESTION 1

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,

$$Z_L = 50 \text{ ohms} @ 0.7 \text{ p.f.}$$

Converting into a polar representation,

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EW Minium

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Table of Contents Hnc Electrical Engineering Example Questions

1. Understanding the eBook Hnc Electrical Engineering Example Questions
 - The Rise of Digital Reading Hnc Electrical Engineering Example Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Hnc Electrical Engineering Example 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 Example Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hnc Electrical Engineering Example Questions
 - Personalized Recommendations
 - Hnc Electrical Engineering Example Questions User Reviews and Ratings
 - Hnc Electrical Engineering Example Questions and Bestseller Lists

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