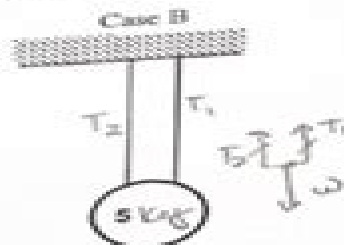
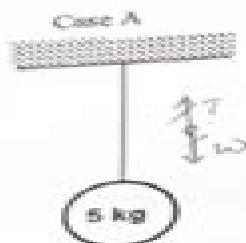


UNIT IV: Worksheet 3

For each of the problems below, carefully draw a force diagram of the system before attempting to solve the problem.

- Determine the tension in each cable in case A and case B.



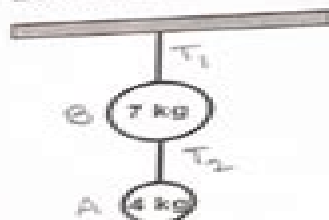
$$A: T = -W = -(-50) \text{ N}$$

$$B: T_1 + T_2 = -W$$

$$2T_1 = -(-50)$$

$$T_2 = T_1 = 25 \text{ N}$$

- Determine tension in each cable. (Hint: There is more than one way to define the system.)



(A)

$$T_2 = -W$$

$$T_2 = -40 \text{ N}$$

$$T_2 = 40 \text{ N}$$

(B)

$$T_1 = -W - T_2$$

$$T_1 = -70 \text{ N} - (-40 \text{ N})$$

$$T_1 = -30 \text{ N}$$

$$T_1 = 30 \text{ N}$$

- The object hanging from the cable has a weight of 25 N. Write the equation for the sum of the forces in the y-direction. What is the tension in the cable?



$$W = 25 \text{ N}$$

$$T_1 = T_2 = 12.5 \text{ N}$$

$$\sum F_y = W + T_1 + T_2 = 0$$

$$T_y = T \sin 30$$

$$\frac{12.5}{\sin 30} = T = 25 \text{ N}$$

Repeat the problem above with a 5° angle. How does the tension compare?

$$T_y = T \sin 5$$

$$T = 143 \text{ N}$$

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Table of Contents Unit Iv Worksheet 3

1. Understanding the eBook Unit Iv Worksheet 3
 - The Rise of Digital Reading Unit Iv Worksheet 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Unit Iv Worksheet 3
 - 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 Unit Iv Worksheet 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unit Iv Worksheet 3
 - Personalized Recommendations
 - Unit Iv Worksheet 3 User Reviews and Ratings
 - Unit Iv Worksheet 3 and Bestseller Lists
5. Accessing Unit Iv Worksheet 3 Free and Paid eBooks
 - Unit Iv Worksheet 3 Public Domain eBooks
 - Unit Iv Worksheet 3 eBook Subscription Services
 - Unit Iv Worksheet 3 Budget-Friendly Options

6. Navigating Unit Iv Worksheet 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - Unit Iv Worksheet 3 Compatibility with Devices
 - Unit Iv Worksheet 3 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unit Iv Worksheet 3
 - Highlighting and Note-Taking Unit Iv Worksheet 3
 - Interactive Elements Unit Iv Worksheet 3
8. Staying Engaged with Unit Iv Worksheet 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unit Iv Worksheet 3
9. Balancing eBooks and Physical Books Unit Iv Worksheet 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unit Iv Worksheet 3
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Unit Iv Worksheet 3
 - Setting Reading Goals Unit Iv Worksheet 3
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Unit Iv Worksheet 3
 - Fact-Checking eBook Content of Unit Iv Worksheet 3
 - 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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