

Problem #1

Determine the forces in the members of the roof truss shown.

Figure:



Reqd: F_{AB}
 F_{BC}
 F_{BD}
 F_{AC}
 F_{CD}

Solution w/ FBD:

Joint C



$$\sum F_V = 0$$

$$0 = -100 + F_{BC}$$

$$F_{BC} = 100 \text{ kN} \text{ (1)}$$

$$\sum F_H = 0$$

$$0 = F_{BD} - F_{AC} \text{ (2)}$$

Joint A



$$\sum F_H = 0$$

$$0 = F_{AC} - F_{AB} \cos 30$$

$$F_{AC} = 100 \cos 30$$

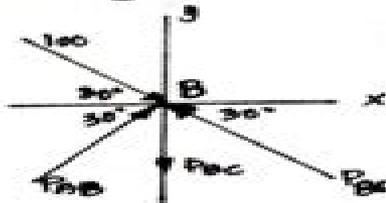
$$F_{AC} = 50\sqrt{3} \text{ kN} \text{ (3)}$$

$$\sum F_V = 0$$

$$0 = R_A - F_{AB} \sin 30$$

$$R_A = 50 \text{ kN}$$

Joint B



$$\sum F_V = 0$$

$$0 = F_{BD} \sin 30 + F_{AB} \sin 30 - 100 \sin 30 - 100$$

$$F_{BD} + F_{AB} = 200 \text{ (4)}$$

$$\sum F_H = 0$$

$$0 = F_{AB} \cos 30 - F_{BD} \cos 30 + 100 \cos 30$$

$$-F_{AB} + F_{BD} = 100 \text{ (5)}$$

$$F_{AB} = F_{BD} - 100$$

Eq. (1)

$$F_{CD} = F_{AC}$$

$$F_{CD} = 50\sqrt{3} \text{ kN} \text{ (6)}$$

Eq. 2 & (3)

$$F_{BD} + (F_{BD} - 100) = 200 \text{ (4)}$$

$$2F_{BD} = 200 \text{ (4)} + 100$$

$$2F_{BD} = 300$$

$$F_{BD} = 150 \text{ kN (c)}$$

$$F_{AB} = 150 - 100$$

$$F_{AB} = 50 \text{ kN (c)}$$

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1. Understanding the eBook Engineering Statics Problems And Solutions
 - The Rise of Digital Reading Engineering Statics Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Statics Problems And Solutions
 - 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 Engineering Statics Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Statics Problems And Solutions

- Personalized Recommendations
 - Engineering Statics Problems And Solutions User Reviews and Ratings
 - Engineering Statics Problems And Solutions and Bestseller Lists
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 - Engineering Statics Problems And Solutions Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Engineering Statics Problems And Solutions
 - Highlighting and Note-Taking Engineering Statics Problems And Solutions
 - Interactive Elements Engineering Statics Problems And Solutions
 8. Staying Engaged with Engineering Statics Problems And Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Statics Problems And Solutions
 9. Balancing eBooks and Physical Books Engineering Statics Problems And Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Statics Problems And Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Engineering Statics Problems And Solutions
 - Setting Reading Goals Engineering Statics Problems And Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Engineering Statics Problems And Solutions

- Fact-Checking eBook Content of Engineering Statics Problems And Solutions
 - 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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