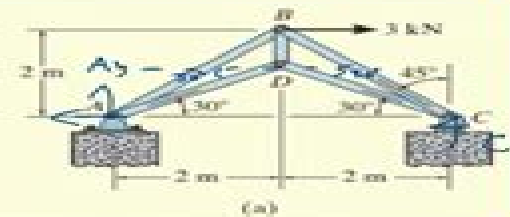


## EXAMPLE 6.2

Determine the forces acting in all the members of the truss shown in Fig. 6-9a.

### SOLUTION

By inspection, there are more than two unknowns at each joint. Consequently, the support reactions on the truss must first be determined. Show that they have been correctly calculated on the free-body diagram in Fig. 6-9b. We can now begin the analysis at joint C. Why?



sections or joint same place joints

1) Supports:

$$\sum F_x = 0: \quad -A_x + 3 = 0 \Rightarrow \boxed{A_x = 3 \text{ kN} \rightarrow}$$

$$\sum M_A = 0 = +3(2) - C(4) \Rightarrow \boxed{C = 1.5 \text{ kN} \uparrow}$$

$$\sum F_y = 0: \quad 1.5 + A_y = 0$$

$$A_y = -1.5 \text{ kN}$$

↓ reverse direction assumed

$$\boxed{A_y = 1.5 \text{ kN} \downarrow}$$

2) Using sections (only 3 needed) or 2 sections and 1 joint smarter



$$\sum F_x = 0 = -\frac{3}{1} + F_{AB} \sin 45 + F_{AD} \cos 30$$

$$\sum F_y = 0 = -\frac{1.5}{1} + F_{AB} \cos 45 + F_{AD} \sin 30$$

$$\begin{aligned} F_{AB} &= -0.776 \text{ kN} \\ F_{AD} &= 4.1 \text{ kN (T)} \end{aligned}$$

\*  $F_{AB} = 0.776 \text{ kN (C)}$

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## **Table of Contents Engineering Statics Problems Solutions**

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

6. Navigating Engineering Statics Problems Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Statics Problems Solutions Compatibility with Devices
  - Engineering Statics Problems Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Statics Problems Solutions
  - Highlighting and Note-Taking Engineering Statics Problems Solutions
  - Interactive Elements Engineering Statics Problems Solutions
8. Staying Engaged with Engineering Statics Problems Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Statics Problems Solutions
9. Balancing eBooks and Physical Books Engineering Statics Problems Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Statics Problems Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Statics Problems Solutions
  - Setting Reading Goals Engineering Statics Problems Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Statics Problems Solutions
  - Fact-Checking eBook Content of Engineering Statics Problems Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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