

Problem 3-1

Determine the magnitudes of F_1 and F_2 so that the particle is in equilibrium.

Given:

$$F = 500 \text{ N}$$

$$\theta_1 = 45^\circ$$

$$\theta_2 = 30^\circ$$

Solution:

Initial Guesses

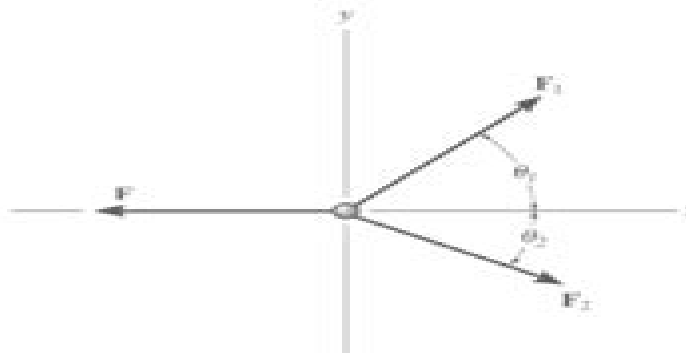
$$F_1 = 1 \text{ N} \quad F_2 = 1 \text{ N}$$

Given

$$\rightarrow \Sigma F_x = 0; \quad F_1 \cos(\theta_1) + F_2 \cos(\theta_2) - F = 0$$

$$+\uparrow \Sigma F_y = 0; \quad F_1 \sin(\theta_1) - F_2 \sin(\theta_2) = 0$$

$$\begin{pmatrix} F_1 \\ F_2 \end{pmatrix} = \text{Find}(F_1, F_2) \quad \begin{pmatrix} F_1 \\ F_2 \end{pmatrix} = \begin{pmatrix} 259 \\ 366 \end{pmatrix} \text{ N}$$

**Problem 3-2**

Determine the magnitude and direction θ of F so that the particle is in equilibrium.

Units Used:

$$\text{kN} = 10^3 \text{ N}$$

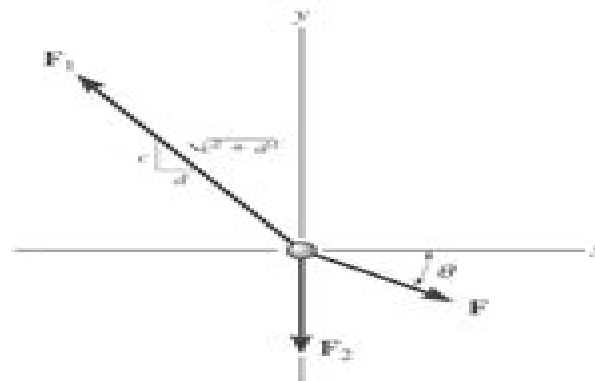
Given:

$$F_1 = 7 \text{ kN}$$

$$F_2 = 3 \text{ kN}$$

$$c = 4$$

$$d = 3$$



Statics 11th Edition Solution Manual

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Srinivasa**



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skills The authors have updated the text to include the integration of numerical approaches and MATLAB computer programs into the body of the text for carrying out analysis of truss beam and frame structures The third edition also offers an update to Chapters 1 through 4 as follows All material related to determinate trusses and cables is moved to Chapter 1 as most students most likely were introduced to these topics in a course on statics Thus Chapter 1 of the current edition is a review of statics The concepts of stress and strain and associated examples were moved from Chapter 1 to Chapter 2 with additional discussion of concepts and examples Chapter 3 in the new edition deals with stress strain relations with applications to determinate systems including trusses and thin walled pressure vessels Indeterminate trusses and associated computer implementation have been moved from Chapter 4 of the second edition to Chapter 7 of the current edition Other indeterminate systems from old Chapter 4 have been retained in new Chapter 4 The second major change is the updating of all the computational tools from FORTRAN to MATLAB and providing interactive tools i e APPs in Chapters 7 10 and 12 of the new edition All computational examples from Chapters 4 and 6 on trusses and beams of the second edition are consolidated into a new chapter Chapter 7 with numerous examples and applications of newly included TRUSS2d BEAM and FRAME2d APPs Chapter 7 also introduces finite element analysis of plane frames a new topic The authors have also added new examples and exercise problems throughout the book that allow students to practice and apply the concepts and formulas to solve problems

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