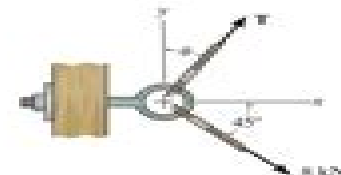


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2-2. If  $\theta = 60^\circ$  and  $T = 5 \text{ kN}$ , determine the magnitude of the resultant force acting on the eyebolt and its direction measured clockwise from the positive  $x$  axis.



The parallelogram law of addition and the triangular rule are shown in Figs. *a* and *b*, respectively.

Applying the law of cosines to Fig. *b*,

$$F_R = \sqrt{5^2 + 8^2 - 2(5)(8)\cos 105^\circ} \\ = 10.47 \text{ kN} \approx 10.5 \text{ kN}$$

Ans.

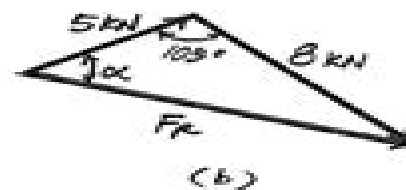
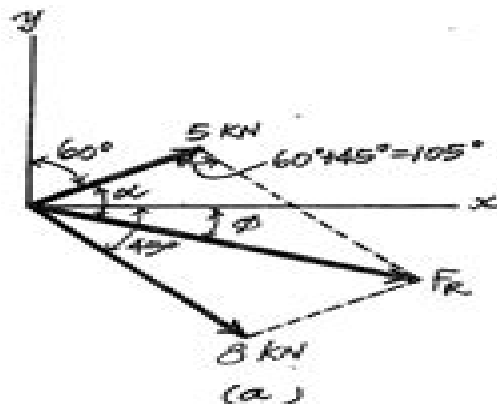
Applying the law of sines to Fig. *b* and using this result, yields

$$\frac{\sin \alpha}{8} = \frac{\sin 105^\circ}{10.47} \quad \alpha = 47.54^\circ$$

Thus, the direction angle  $\phi$  of  $F_R$  measured clockwise from the positive  $x$  axis is

$$\phi = \alpha - 30^\circ = 47.54^\circ - 30^\circ = 17.5^\circ$$

Ans.



# Applied Mechanics Statics Manual

**Daniel Balint**



## **Applied Mechanics Statics Manual:**

**Teachers Manual Applied Mechanics- Statics** Charles Edward Smith, Smith, 1976-05-01      A Mathcad Manual for Engineering Mechanic Daniel J. Inman, 2007 This supplement to Engineering Mechanics Statics provides all of the necessary instructions to use Mathcad Student or Professional software to aid the reader in solving homework problems and working through the sample problems within the text It is keyed heavily to the accompanying Statics text and works through many of the sample problems in detail While this supplement suggests ways in which to use Mathcad to enhance your understanding of statics and teach you efficient computational skills you may also browse through the Mathcad Student manual and think of your own usage of Mathcad to solve statics problems and applications in other courses The manual consists of 11 chapters The first chapter is a general introduction to Mathcad that concludes with a sample application of Mathcad to a statics problem and can be studied while reading Chapter 1 of the accompanying Statics text The following 10 chapters present appropriate Mathcad solutions for some of the sample problems given in the text Chapter 1 Using Mathcad Computational Software Numerical Calculation Working with Functions Symbolic Calculations Solving Algebraic Equations Graphs and Plots Application of Mathcad to a Statics Problem Along with solutions to sample problems other topics covered within this manual include Mathcad as a Vector Calculator Solution of Simultaneous Linear Equations Using Mathcad for Other Matrix Calculations Scalar or Dot Product Vector or Cross Product Between Two Vectors Parametric Solutions Solution of Nonlinear Algebraic Equations Vector or Cross Product Between Two Vectors Numerical and Symbolic Integration Three Dimensional Scatter Plots Symbolic Generation of Equilibrium Equations Discontinuity Functions Cables Wedges Belt Friction Principle Second Moments of Area Eigenvalue Problems      **Engineering Mechanics, Statics and Dynamics** Bela Imre Sandor, Karen J. Richter, 1983      *A Manual of Applied Mechanics* William John Macquorn Rankine, 1877      **Engineering Mechanics Statics** R C Hibbeler, 2013-09-13      **Solutions Manual for Engineering Mechanics** Davinder K. Anand, Patrick F. Cunniff, 1973      **Instructor's Solutions Manual for Engineering Mechanics: Statics** Andrew Pytel, Jaan Kiusalaas, 1999      **Engineering Mechanics** Irving Herman Shames, 1980      **Applied Mechanics (an Elementary Manual On)** Andrew Jamieson, 1898      Solutions Manual: Engineering Mechanics--statics and Dynamics R. C. Hibbeler, 1986      **Solutions Manual [to Accompany]** R. C. Hibbeler, S. C. Fan, 2005      **Instructor's Solutions Manual** R. C. Hibbeler, 2007      **A Text-book on Applied Mechanics** Andrew Jamieson, 1895      *Engineering Mechanics, Statics and Dynamics* Bela Imre Sandor, 1987      **Solutions Manual Accompanying "Engineering Mechanics: Statics 10th Edition"** Russell C. Hibbeler, 2003-10      *Engineering Mechanics* William Franklin Riley, Leroy D. Sturges, 1996

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supplement is intended to teach the reader how to solve Statics problems using Maple While the manual suggests ways to use Maple to enhance your understanding of statics and teach you efficient computational skills you should feel free to browse the Maple manual and create your own methods for solving statics problems and for using Maple Quality technical documents can be created entirely within maple This manual is an example of this and demonstrates the software s capability As a consequence the input and output for formats presented in this manual are consistent with actual Maple input and output Explanations are provided for the generation of symbols and operators that do not appear on the standard keyboard Any input that is executed remains in memory and can be used for future calculations This Maple manual consists of 11 chapters The first chapter is a general introduction to Maple that concludes with a sample application and can be studied while reading the first chapter of the accompanying Statics text This is followed by 10 more chapters where appropriate maple solutions are presented for the sample problems in the text Chapter 1 Using Maple Computational Software Numerical Calculation Working with Functions Symbolic Calculations Solving Algebraic Equations Graphs and Plots Applications of Maple to a Statics Problem As well as solutions to sample problems from the main text this manual also covers the following topics Maple as a Vector Calculator Solution of Simultaneous Linear Equations Using Maple for Other Matrix Calculations Scalar or Dot Product Vector or Cross Product Between Two Vectors Parametric Solutions Solution of Nonlinear Algebraic Equations Numerical and Symbolic Integration Three Dimensional Scatter Plots Discontinuity Functions Cables Wedges Belt Friction Ratio of Tensions vs the Coefficient of Friction and Contact Angle Principle Second Moments of Area

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