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2-34. If the magnitude of the resultant force acting on the eyebolt is 600 N and its direction measured clockwise from the positive  $x$  axis is  $\theta = 30^\circ$ , determine the magnitude of  $F_1$  and the angle  $\phi$ .

**Rectangular Components:** By referring to Figs. a and b, the  $x$  and  $y$  components of  $F_1$ ,  $F_2$ ,  $F_3$ , and  $F_4$  can be written as

$$\begin{aligned} (F_1)_x &= F_1 \cos \phi \\ (F_1)_y &= 300 \cos 60^\circ = 150 \text{ N} \\ (F_2)_x &= 400 \left(\frac{3}{5}\right) = 240 \text{ N} \\ (F_2)_y &= 400 \cos 30^\circ = 346.42 \text{ N} \end{aligned}$$

$$\begin{aligned} (F_3)_x &= F_3 \sin \theta \\ (F_3)_y &= 300 \sin 60^\circ = 433.01 \text{ N} \\ (F_4)_x &= 400 \left(\frac{4}{5}\right) = 320 \text{ N} \\ (F_4)_y &= 400 \sin 30^\circ = 200 \text{ N} \end{aligned}$$



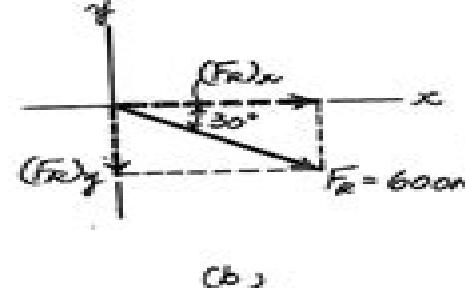
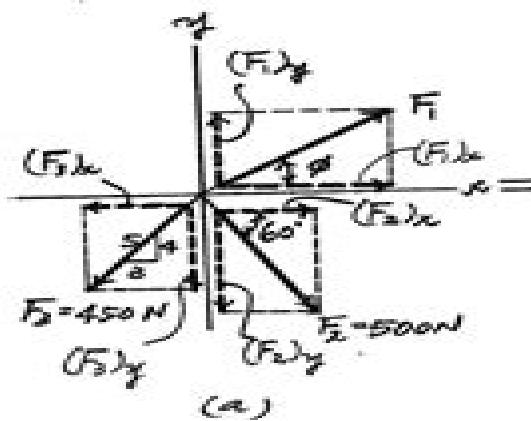
**Resultant Force:** Summing the force components algebraically along the  $x$  and  $y$  axes,

$$\begin{aligned} \Sigma_x (F_R)_x &= 2(F_2)_x - 519.62 = F_1 \cos \phi + 240 - 270 & (1) \\ F_1 \cos \phi &= 519.62 \\ + \Sigma_y (F_R)_y &= 2(F_2)_y - 300 = F_1 \sin \phi - 433.01 + 200 & (2) \\ F_1 \sin \phi &= 493.01 \end{aligned}$$

Solving Eqs. (1) and (2), yields

$$\phi = 42.4^\circ \quad F_1 = 701 \text{ N}$$

Ans.



# Solution Manual For Engineering Stati

**Léo Pomar**

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*Study Guide and Student Solutions Manual for Use with Statistics, a First Course, First Canadian Edition* Robert K. Smidt,2001

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to Mendenhall and Sincich's Statistics for Engineering and the Sciences Sixth Edition this student resource offers full solutions to all of the odd numbered exercises *Statistics Catalog 2005* Neil Thomson, 2004-09 Applied Statistics for Engineers and Scientists David M. Levine, Patricia P. Ramsey, Robert K. Smidt, 2001 For courses in Probability and Statistics This applied text for engineers and scientists written in a non theoretical manner focuses on underlying principles that are important to students in a wide range of disciplines It emphasizes the interpretation of results the presentation and evaluation of assumptions and the discussion of what should be done if the assumptions are violated Integration of spreadsheet and statistical software Microsoft Excel and Minitab as well as in depth coverage of quality and experimental design complete this treatment of statistics *Subject Guide to Books in Print*, 1993 **Engineering**, 1908 *Statistics of Hydraulic Works and Hydrology of England, Canada, Egypt and India* Louis D'Aguilar Jackson, 1885 Technical Books in Print, 1974 *The Publishers' Trade List Annual*, 1992 Engineering Education, 1974

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