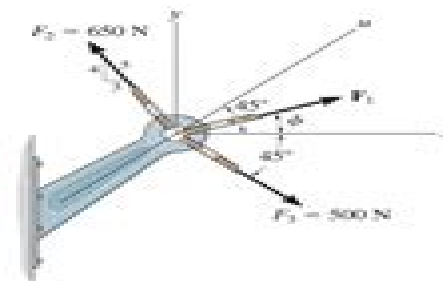


2-45.

If the resultant force acting on the bracket is to be directed along the positive  $x$  axis, and the magnitude of  $F_1$  is required to be minimum, determine the magnitudes of the resultant force and  $F_1$ .



## SOLUTION

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

$$\begin{aligned}(F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\(F_2)_x &= 650 \left( \frac{3}{5} \right) = 390 \text{ N} & (F_2)_y &= 650 \left( \frac{4}{5} \right) = 520 \text{ N} \\(F_3)_x &= 500 \cos 45^\circ = 353.55 \text{ N} & (F_3)_y &= 500 \sin 45^\circ = 353.55 \text{ N} \\(F_R)_x &= F_R \cos 45^\circ = 0.7071 F_R & (F_R)_y &= F_R \sin 45^\circ = 0.7071 F_R\end{aligned}$$

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

$$\begin{aligned}\rightarrow \Sigma (F_R)_x &= \Sigma F_{x_i} & 0.7071 F_R &= F_1 \cos \phi - 390 + 353.55 & (1)\end{aligned}$$

$$\begin{aligned}+\uparrow \Sigma (F_R)_y &= \Sigma F_{y_i} & 0.7071 F_R &= F_1 \sin \phi + 520 - 353.55 & (2)\end{aligned}$$

Eliminating  $F_R$  from Eqs. (1) and (2), yields

$$F_1 = \frac{202.89}{\cos \phi - \sin \phi} \quad (3)$$

The first derivative of Eq. (3) is

$$\frac{dF_1}{d\phi} = \frac{\sin \phi + \cos \phi}{(\cos \phi - \sin \phi)^2} \quad (4)$$

The second derivative of Eq. (3) is

$$\frac{d^2 F_1}{d\phi^2} = \frac{2(\sin \phi + \cos \phi)^2}{(\cos \phi - \sin \phi)^3} + \frac{1}{\cos \phi - \sin \phi} \quad (5)$$

For  $F_1$  to be minimum,  $\frac{dF_1}{d\phi} = 0$ . Thus, from Eq. (4)

$$\sin \phi + \cos \phi = 0$$

$$\tan \phi = -1$$

$$\phi = -45^\circ$$

Substituting  $\phi = -45^\circ$  into Eq. (5), yields

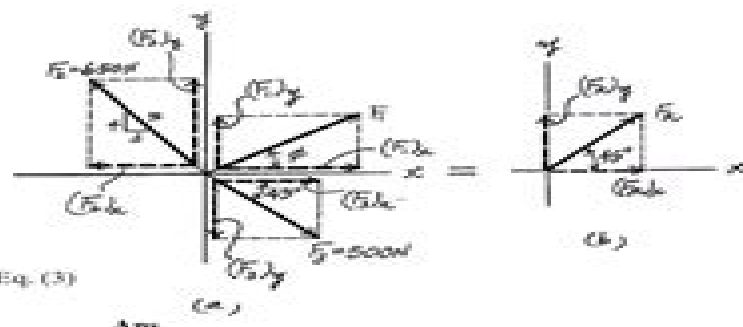
$$\frac{d^2 F_1}{d\phi^2} = 0.7071 > 0$$

This shows that  $\phi = -45^\circ$  indeed produces minimum  $F_1$ . Thus, from Eq. (3)

$$F_1 = \frac{202.89}{\cos(-45^\circ) - \sin(-45^\circ)} = 143.47 \text{ N} \approx 143 \text{ N}$$

Substituting  $\phi = -45^\circ$  and  $F_1 = 143.47 \text{ N}$  into either Eq. (1) or Eq. (2), yields

$$F_R = 91.9 \text{ N}$$



Ans. (a)

Ans.

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web feb 1 2014 2019 the study intends to explore how the tensions debates and beliefs about grammar teaching are adjudicated by a communicative english skills teacher to

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web different opinions on grammar teaching therefore a number of studies have been conducted on teachers beliefs about grammar teaching some teachers view

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web aug 1 2019 this study investigated teachers beliefs regarding grammar instruction integrated into communicative teaching in an english as a foreign language efl

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web teaching of grammar teachers beliefs instructional contexts and practices abstract despite a recent increased interest in the area of teacher

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web oct 13 2023 grammar teaching should be explicit this does not exclude explicit grammar teaching entirely however some basic features of english language

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web may 14 2014 beliefs and practices towards teaching and learning grammar a multicase study bellaterra journal of teaching learning language literature cc

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web jun 15 2023 the results gave some evidence that the teacher s beliefs had some impacts on her grammar teaching

practices similar research conducted by involved

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web the authors aimed to explore experienced english language teachers beliefs about the way grammar should be taught in primary schools and to investigate their actual classroom practices of teaching grammar

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web the instrument looked at four aspects of grammar instruction in the classroom input explicit l2 knowledge student output and error correction the data were analyzed

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web teachers beliefs 1 1 1 the nature of the teachers beliefs how teachers make sense of their professional world the knowledge and the beliefs they bring with them to the

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web teachers in general believe that grammar is central to language learning and students need direct and explicit teaching of grammar rules for accuracy burges ethe

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web teachers beliefs about grammar teaching can determine whether they prioritize explicit instruction focus on communicative approaches or adopt a combination of both these

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web teachers beliefs about grammar teaching and teachers language awareness and the way these beliefs interact and influence grammar teaching andrews 2003 borg 2003

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