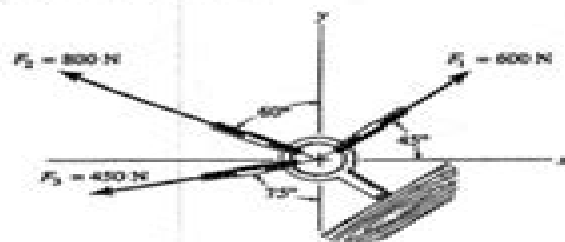


2-1. Determine the magnitude of the resultant force $F_R = F_1 + F_2 + F_3$ and its direction, measured counterclockwise from the positive x axis.



$$F_R = \sqrt{(800)^2 + (800)^2 - 2(800)(800)\cos 75^\circ} = 800.91 = 801 \text{ N} \quad \text{Ans}$$

$$\frac{800.91}{\sin 75^\circ} = \frac{800}{\sin \theta}$$

$$\theta = 63.05^\circ$$

$$\phi = 63.05^\circ + 45^\circ = 108^\circ \quad \text{Ans}$$



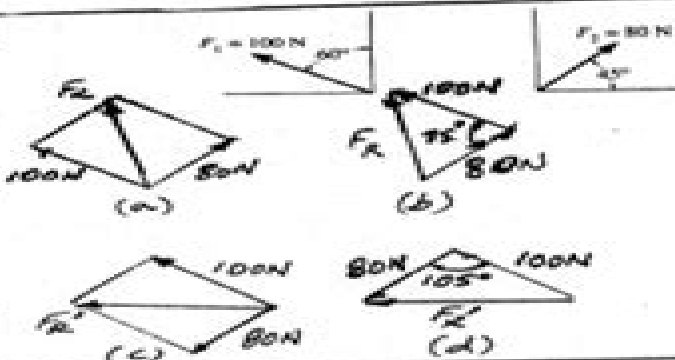
2-2. Determine the magnitude of the resultant force if: (a) $F_R = F_1 + F_2$; (b) $F_R = F_1 - F_2$.

Parallelogram Law: The parallelogram law of addition is shown in Fig. (a) and (c).

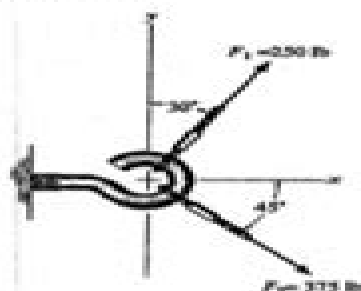
Trigonometry: Using law of cosines [Fig. (b) and (d)], we have

$$a) \quad F_R = \sqrt{100^2 + 80^2 - 2(100)(80)\cos 75^\circ} = 111 \text{ N} \quad \text{Ans}$$

$$b) \quad F_R' = \sqrt{100^2 + 80^2 - 2(100)(80)\cos 105^\circ} = 143 \text{ N} \quad \text{Ans}$$



2-3. Determine the magnitude of the resultant force $F_R = F_1 + F_2$ and its direction, measured counterclockwise from the positive x axis.



$$F_R = \sqrt{(250)^2 + (375)^2 - 2(250)(375)\cos 75^\circ} = 393.2 = 393 \text{ lb} \quad \text{Ans}$$

$$\frac{393.2}{\sin 75^\circ} = \frac{250}{\sin \theta}$$

$$\theta = 37.89^\circ$$

$$\phi = 360^\circ - 45^\circ + 37.89^\circ = 353^\circ \quad \text{Ans}$$



*2-4. Determine the magnitude of the resultant force $F_R = F_1 + F_2$ and its direction, measured clockwise from the positive x axis.



$$F_R = \sqrt{(500)^2 + (300)^2 - 2(500)(300)\cos 95^\circ} = 605.1 = 605 \text{ N} \quad \text{Ans}$$

$$\frac{605.1}{\sin 95^\circ} = \frac{300}{\sin \theta}$$

$$\theta = 33.40^\circ$$

$$\phi = 33.40^\circ + 30^\circ = 63.4^\circ \quad \text{Ans}$$



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R. C. Hibbeler, S. C. Fan



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