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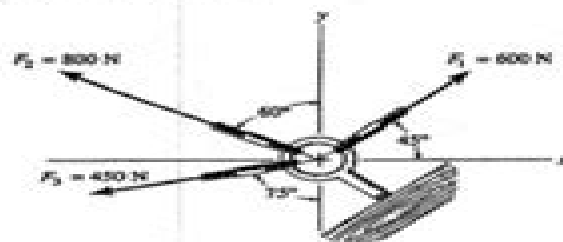2-1.** Determine the magnitude of the resultant force $F_R = F_1 + F_2$ and its direction, measured counterclockwise from the positive $x$ axis.



$F_R = \sqrt{(600)^2 + (800)^2 - 2(600)(800)\cos 75°} = 866.91 = 867\ N$ Ans

$$\frac{866.91}{\sin 75°} = \frac{800}{\sin \theta}$$

$\theta = 63.05°$

$\phi = 63.05° + 45° = 108°$ Ans

---

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



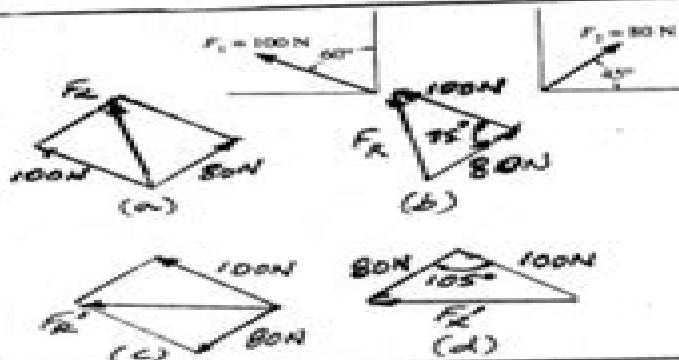**Parallelogram Law :** The parallelogram law of addition is shown in Fig. (a) and (c).

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

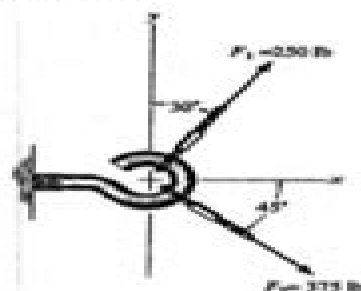a) $F_R = \sqrt{100^2 + 80^2 - 2(100)(80)\cos 75°}$
$= 111\ N$ Ans

b) $F_R' = \sqrt{100^2 + 80^2 - 2(100)(80)\cos 105°}$
$= 143\ N$ 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.



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

$$\frac{393.2}{\sin 75°} = \frac{250}{\sin \theta}$$

$\theta = 37.89°$

$\phi = 360° - 45° + 37.89° = 353°$ Ans

---

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



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

$$\frac{605.1}{\sin 95°} = \frac{500}{\sin \theta}$$

$\theta = 55.40°$

$\phi = 55.40° + 30° = 85.4°$ Ans

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