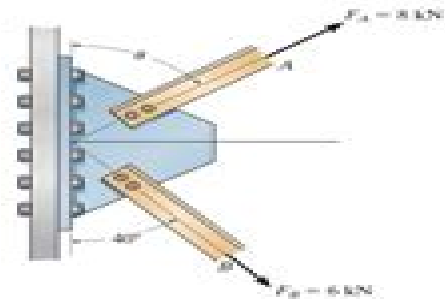


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2-10. Determine the angle of θ for connecting member A to the plate so that the resultant force of $\mathbf{F}_A$ and $\mathbf{F}_B$ is directed horizontally to the right. Also, what is the magnitude of the resultant force?



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

Trigonometry : Using law of sines [Fig. (b)], we have

$$\frac{\sin (90^{\circ}-\theta)}{6}=\frac{\sin 50^{\circ}}{8}$$

$$\sin (90^{\circ}-\theta)=0.3743$$

$$\theta=34.93^{\circ}=34.9^{\circ}$$

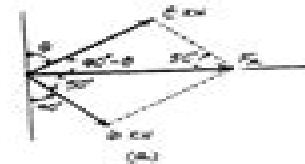
Ans

From the triangle, $\phi=180^{\circ}-(90^{\circ}-34.93^{\circ})-50^{\circ}=34.93^{\circ}$. Thus, using law of cosines, the magnitude of $\mathbf{F}_R$ is

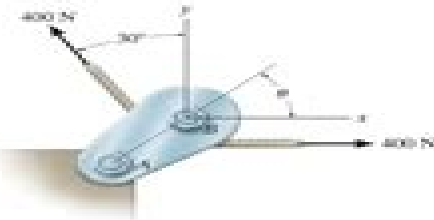
$$F_R=\sqrt{6^2+8^2-2(6)(8)\cos 34.93^{\circ}}$$

$$=10.4 \text{ kN}$$

Ans



2-11. If the tension in the cable is 400 N, determine the magnitude and direction of the resultant force acting on the pulley. This angle is the same angle θ of line AB on the tailboard block.



$$F_R=\sqrt{(400)^2+(400)^2-2(400)(400)\cos 60^{\circ}}=400 \text{ N}$$

Ans

$$\frac{\sin \theta}{400}=\frac{\sin 60^{\circ}}{400}; \quad \theta=60^{\circ}$$

Ans



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