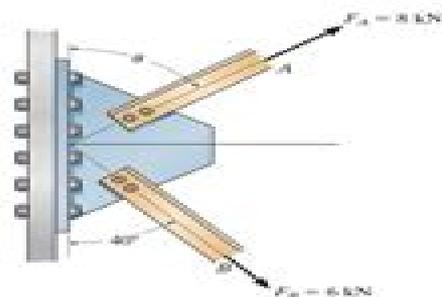


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2-10. Determine the angle of θ for connecting member A to the plate so that the resultant force of F_A and F_B is directed horizontally to the right. Also, what is the magnitude of the resultant force?



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

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

$$\frac{\sin (90^\circ - \theta)}{8} = \frac{\sin 30^\circ}{R}$$

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

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

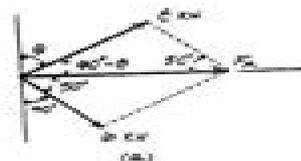
Ans

From the triangle, $\phi = 180^\circ - (90^\circ + 34.93^\circ) = 55^\circ = 54.93^\circ$. Thus, using law of cosines, the magnitude of F_R is

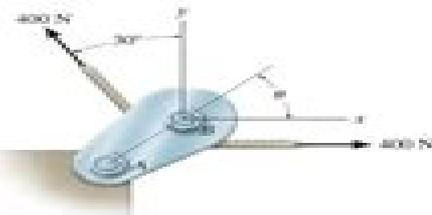
$$F_R = \sqrt{8^2 + 6^2 - 2(8)(6)\cos 54.93^\circ}$$

$$= 10.4 \text{ kN}$$

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.

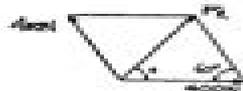


$$F_R = \sqrt{(400)^2 + (400)^2 - 2(400)(400)\cos 60^\circ} = 400 \text{ N}$$

Ans

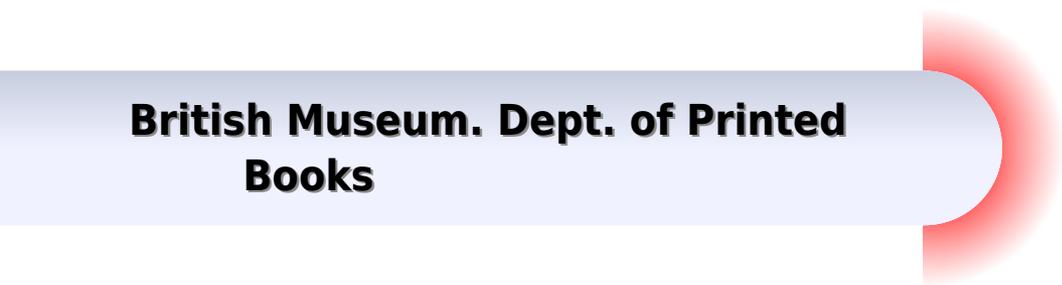
$$\frac{\sin \theta}{400} = \frac{\sin 60^\circ}{400} ; \theta = 60^\circ$$

Ans



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