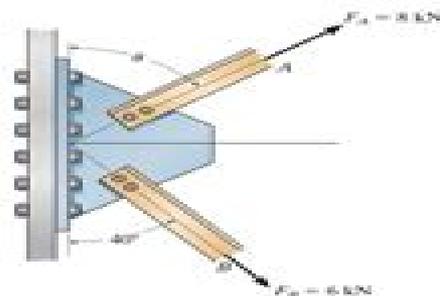


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**2-10.** Determine the angle of  $\theta$  for connecting member  $A$  to the plate so that the resultant force of  $F_A$  and  $F_B$  is directed horizontally to the right. Also, what is the magnitude of the resultant force?



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

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

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

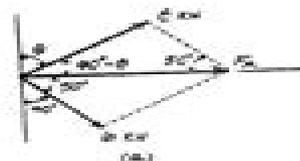
$$\sin (90^{\circ}-\theta) = 0.3750$$

$$\theta = 34.93^{\circ} = 34.9^{\circ} \quad \text{Ans}$$

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

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

$$= 10.4 \text{ kN} \quad \text{Ans}$$

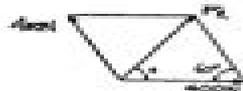


**2-11.** If the tension in the cable is 400 N, determine the magnitude and direction of the resultant force acting on the pulley. This angle is the same angle  $\theta$  of line  $AB$  on the tailboard block.



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

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



# Engineering Mechanics Statics 12th Edition For Ipad

**David Baud**



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