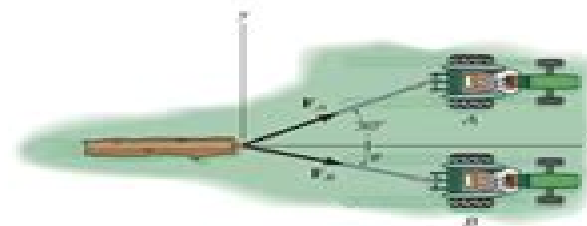


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2-26. The log is being towed by two tractors *A* and *B*. Determine the magnitudes of the two towing forces F_A and F_B if it is required that the resultant force have a magnitude $F_R = 10 \text{ kN}$ and be directed along the *x* axis. Set $\theta = 15^\circ$.



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

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

$$\frac{F_B}{\sin 15^\circ} = \frac{10}{\sin 135^\circ}$$

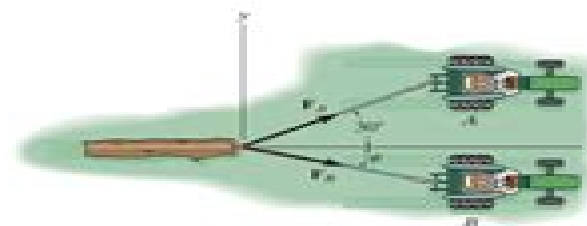
$$F_B = 3.66 \text{ kN} \quad \text{Ans}$$

$$\frac{F_A}{\sin 50^\circ} = \frac{10}{\sin 135^\circ}$$

$$F_A = 7.67 \text{ kN} \quad \text{Ans}$$



2-27. The resultant F_R of the two forces acting on the log is to be directed along the positive *x* axis and have a magnitude of 10 kN, determine the angle θ of the cable, attached to *B* such that the magnitude of force F_B in this cable is a minimum. What is the magnitude of the force in each cable for this situation?



Parallelogram Law : In order to produce a minimum force F_B , F_B has to act perpendicular to F_A . The parallelogram law of addition is shown in Fig. (a).

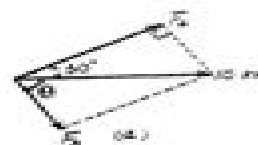
Trigonometry : Fig. (b).

$$F_{B_{\min}} = 10 \sin 30^\circ = 5.00 \text{ kN} \quad \text{Ans}$$

$$F_A = 10 \cos 30^\circ = 8.66 \text{ kN} \quad \text{Ans}$$

The angle θ is

$$\theta = 90^\circ - 30^\circ = 60.0^\circ \quad \text{Ans}$$



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