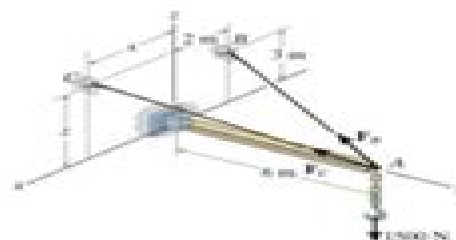


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2-99. Two cables are used to secure the overhanging boom in position and support the 1500-N load. If the resultant force is directed along the boom from point A towards O , determine the magnitudes of the resultant force and forces F_B and F_C . Set $x = 3$ m and $z = 2$ m.



Force Vectors: The unit vectors $\mathbf{u}_B$ and $\mathbf{u}_C$ must be determined first. From Fig. a,

$$\mathbf{u}_B = \frac{\mathbf{r}_B}{r_B} = \frac{(-2 - 0)\mathbf{i} + (0 - 0)\mathbf{j} + (3 - 0)\mathbf{k}}{\sqrt{(-2 - 0)^2 + (0 - 0)^2 + (3 - 0)^2}} = -\frac{2}{5}\mathbf{i} - \frac{0}{5}\mathbf{j} + \frac{3}{5}\mathbf{k}$$

$$\mathbf{u}_C = \frac{\mathbf{r}_C}{r_C} = \frac{(3 - 0)\mathbf{i} + (0 - 0)\mathbf{j} + (2 - 0)\mathbf{k}}{\sqrt{(3 - 0)^2 + (0 - 0)^2 + (2 - 0)^2}} = \frac{3}{5}\mathbf{i} - \frac{0}{5}\mathbf{j} + \frac{2}{5}\mathbf{k}$$

Thus, the force vectors $\mathbf{F}_B$ and $\mathbf{F}_C$ are given by

$$\mathbf{F}_B = F_B \mathbf{u}_B = -\frac{2}{5}F_B \mathbf{i} - \frac{0}{5}F_B \mathbf{j} + \frac{3}{5}F_B \mathbf{k}$$

$$\mathbf{F}_C = F_C \mathbf{u}_C = \frac{3}{5}F_C \mathbf{i} - \frac{0}{5}F_C \mathbf{j} + \frac{2}{5}F_C \mathbf{k}$$

Since the resultant force $\mathbf{F}_R$ is directed along the negative y axis, and the load $\mathbf{W}$ is directed along the $-y$ axis, these two forces can be written as

$$\mathbf{F}_R = -F_R \mathbf{j} \quad \text{and} \quad \mathbf{W} = (-1500)\mathbf{j} \text{ N}$$

Resultant Forces: The vector addition of $\mathbf{F}_B$, $\mathbf{F}_C$, and $\mathbf{W}$ is equal to $\mathbf{F}_R$. Thus,

$$\mathbf{F}_R = \mathbf{F}_B + \mathbf{F}_C + \mathbf{W}$$

$$-F_R \mathbf{j} = \left(-\frac{2}{5}F_B \mathbf{i} - \frac{0}{5}F_B \mathbf{j} + \frac{3}{5}F_B \mathbf{k} \right) + \left(\frac{3}{5}F_C \mathbf{i} - \frac{0}{5}F_C \mathbf{j} + \frac{2}{5}F_C \mathbf{k} \right) + (-1500)\mathbf{j}$$

$$-F_R \mathbf{j} = \left(-\frac{2}{5}F_B + \frac{3}{5}F_C \right) \mathbf{i} + \left(-\frac{0}{5}F_B - \frac{0}{5}F_C \right) \mathbf{j} + \left(\frac{3}{5}F_B + \frac{2}{5}F_C - 1500 \right) \mathbf{k}$$

Equating the $\mathbf{i}$, $\mathbf{j}$, and $\mathbf{k}$ components,

$$0 = -\frac{2}{5}F_B + \frac{3}{5}F_C \quad (1)$$

$$-F_R = -\frac{0}{5}F_B - \frac{0}{5}F_C \quad (2)$$

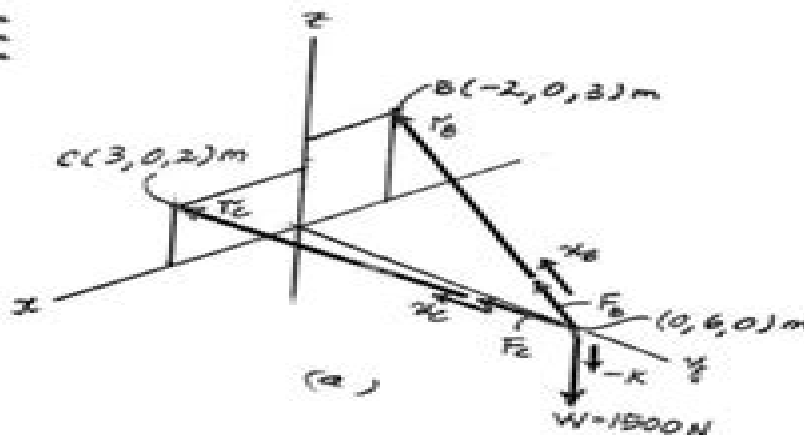
$$0 = \frac{3}{5}F_B + \frac{2}{5}F_C - 1500 \quad (3)$$

Solving Eqs. (1), (2), and (3) yields

$$F_C = 1615.38 \text{ N} = 1.62 \text{ kN} \quad \text{Ans.}$$

$$F_B = 2423.08 \text{ N} = 2.42 \text{ kN} \quad \text{Ans.}$$

$$F_R = 3461.55 \text{ N} = 3.46 \text{ kN} \quad \text{Ans.}$$



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