Exemplo 2.9

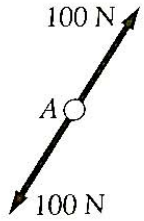

Figura 2.26

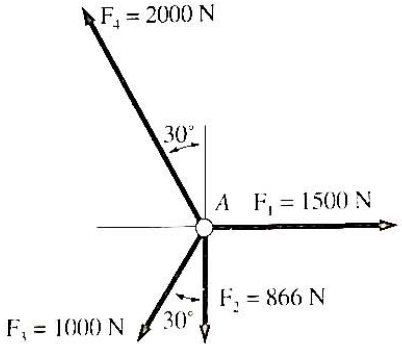

Figura 2.27

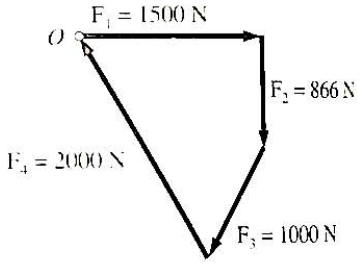

Figura 2.28

$MF_1 := 1500N \quad \alpha_1 := 0deg \qquad F_1 := \begin{pmatrix} MF_1 \cdot \cos(\alpha_1) \\ MF_1 \cdot \sin(\alpha_1) \end{pmatrix} \qquad F_1 = \begin{pmatrix} 1500 \\ 0 \end{pmatrix} N$

$MF_2 := 866 \cdot N \quad \alpha_2 := -\frac{\pi}{2} \qquad F_2 := \begin{pmatrix} MF_2 \cdot \cos(\alpha_2) \\ MF_2 \cdot \sin(\alpha_2) \end{pmatrix} \qquad F_2 = \begin{pmatrix} 0 \\ -866 \end{pmatrix} N$

$MF_3 := 1000N \quad \alpha_3 := -\frac{\pi}{2} - 30 \cdot deg \qquad F_3 := \begin{pmatrix} MF_3 \cdot \cos(\alpha_3) \\ MF_3 \cdot \sin(\alpha_3) \end{pmatrix} \qquad F_3 = \begin{pmatrix} -500 \\ -866 \end{pmatrix} N$

$MF_4 := 2000N \quad \alpha_4 := \frac{\pi}{2} + 30deg \qquad F_4 := \begin{pmatrix} MF_4 \cdot \cos(\alpha_4) \\ MF_4 \cdot \sin(\alpha_4) \end{pmatrix} \qquad F_4 = \begin{pmatrix} -1000 \\ 1732.1 \end{pmatrix} N$

$R := F_1 + F_2 + F_3 + F_4 \qquad R = \begin{pmatrix} 0 \\ 0 \end{pmatrix} N$