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The members of a truss are pin connected at joint O. Determine the magnitudes of F₁ and F₂ for equilibrium.

 $F_{\rm v} = 1.83 \, {\rm kW}$

3601 SOLUTION $\frac{1}{2} \circ F_k = 0$; $F_2 \sin 70^n + F_1 \cos 60^n - 5 \cos 30^n - \frac{4}{6} (7) = 0$ $0.9397F_2 + 0.5F_1 = 9.930$ $+ c \circ P_y = 0$; $P_2 \cos 70^n + 5 \sin 30^n - P_1 \sin 60^n - \frac{3}{5}(7) = 0$ $0.3420P_2 - 0.8660P_1 = 1.7$ Solving: $F_2 = 9.60 \text{ k/N}$

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