


FIGURE P6-31

Problems 6-86 and 6-87 An aircraft overhead bin mechanism - dimensions in inches

- 6-86 Find all instant centers of the linkage in Figure P6-31 in the position shown.
- 6-87 Find the angular velocities of links 3 and 4, and the linear velocity of point P in the XY coordinate system for the linkage in Figure P6-31 in the position shown. Assume that $\theta_2 = -88.72^\circ$ in the XY coordinate system and $\omega_2 = 1$ rad/sec. The position of the coupler point P on link 3 with respect to point A is: $p = 15.00$, $\delta_3 = 0^\circ$.
- Using a graphical method.
 - Using the method of instant centers.
 - Using an analytical method.

[†] These problems are suited to solution using *Mathcad*, *Matlab*, or *TKSolver* equation solver programs. In most cases, your solution can be checked with program FOURBAR.