FIGURE P4-17

Problems 4-55 to 4-57 An aircraft overhead bin mechanism - dimensions in inches

4-55   For the linkage in Figure P4-17, calculate the maximum CW rotation of link 2 from
        the position shown. What angles do link 3 and link 4 rotate through for that excur-
        sion of link 2?

4-56   Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or
        TKSolver to calculate and plot the position of the coupler point *P* of the linkage in
        Figure P4-17 with respect to the *XY* coordinate system as a function of the angle of
        link 2 with respect to the *XY* system. The position of the coupler point *P* on link 3
        with respect to point *A* is: $p = 15.00$, $\delta_3 = 0°$.

4-57   For the linkage in Figure P4-17, calculate the coordinates of the point *P* in the *XY*
        coordinate system if its coordinates in the *xy* system are (2.71, 10.54).