

FIGURE 3-34

Stephenson's III sixbar with 180° oscillation of link 6 when crank 2 revolves fully (Source: Hain⁽²²⁾, pp. 448-450)

- 7-63 Find the angular acceleration of link 6 of the linkage in Figure 3-34 part (b) (p. 143) for the position shown ($\theta_6 = 90^\circ$ with respect to the x-axis) assuming constant $\omega_2 = 10$ rad/sec CW.
 - Using a graphical method. a.
 - [†]b. Using an analytical method.
- [†]7-64 Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or TKSolver to calculate and plot the angular acceleration of link 6 in the sixbar linkage of Figure 3-34 as a function of θ_2 for a constant $\omega_2 = 1$ rad/sec CW.

[†] These problems are suited to solution using Mathcad, Matlab, or TKSolver equation solver programs.