



**FIGURE 3-37**

Circle generating mechanisms (Source: Artobolevsky <sup>(20)</sup> Vol 1, pp. 450-451)

- †6-80 Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or *TKSolver* to calculate and plot magnitude and direction of the velocity of point *P* in Figure 3-37a (p. 144) as a function of  $\theta_2$ . Also calculate and plot the velocity of point *P* versus point *A*.
- †6-81 Calculate the percent error of the deviation from a perfect circle for the path of point *P* in Figure 3-37a (p. 144).
- †6-82 Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or *TKSolver* to calculate and plot the angular velocity of link 8 in the linkage of Figure 3-37b as a function of  $\theta_2$  for a constant  $\omega_2 = 1$  rad/sec CCW.