

**FIGURE P4-19**

Problem 4-59

- †4-59 Figure P4-19 shows a mechanism commonly used as a cabinet door hinge. Write a computer program or use an equation solver such as *Mathcad*, *Matlab*, or *TKSolver* to calculate and plot the angular position of link 6 in Figure P4-19 as a function of the angle of input link 2. $O_2O_4 = AB = BC = DE = 1$. $O_2A = O_4B = BE = CD = 1.75$. $O_4C = AE = 2.60$. *Hint: Because the linkage geometry is simple and symmetrical, the analysis can be done with simple trigonometry.*