



**FIGURE P6-3**

Configuration and terminology for Problems 6-8 to 6-9

- \*6-8 The general linkage configuration and terminology for an inverted fourbar slider-crank linkage are shown in Figure P6-3. The link lengths and the values of  $\theta_2$ ,  $\omega_2$ , and  $\gamma$  are defined in Table P6-3. *For the row(s) assigned*, draw the linkage to scale and find the velocities of points A and B and velocity of slip at the sliding joint using a graphical method.
- \*†6-9 Repeat Problem 6-8 using an analytical method. Draw the linkage to scale and label it before setting up the equations.

\* Answers in Appendix F.

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

**TABLE P6-3 Data for Problems 6-8 to 6-9**

Row	Link 1	Link 2	Link 4	$\gamma$	$\theta_2$	$\omega_2$
a	6	2	4	90	30	10
b	7	9	3	75	85	-15
c	3	10	6	45	45	24
d	8	5	3	60	25	-50
e	8	4	2	30	75	-45
f	5	8	8	90	150	100