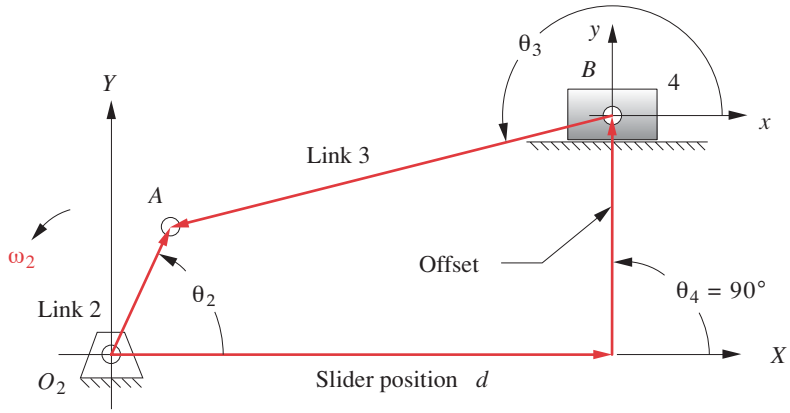

FIGURE P6-2

Configuration and terminology for Problems 6-6 to 6-7

*6-6 The general linkage configuration and terminology for an offset fourbar slider-crank linkage are shown in Figure P6-2. The link lengths and the values of θ_2 and ω_2 are defined in Table P6-2. *For the row(s) assigned*, draw the linkage to scale and find the velocities of the pin joints *A* and *B* and the velocity of slip at the sliding joint using a graphical method.

*†6-7 Repeat Problem 6-6 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. In most cases, your solution can be checked with program SLIDER.

TABLE P6-2 Data for Problems 6-6 to 6-7

Row	Link 2	Link 3	Offset	θ_2	ω_2
a	1.4	4	1	45	10
b	2	6	–3	60	–12
c	3	8	2	–30	–15
d	3.5	10	1	120	24
e	5	20	–5	225	–50
f	3	13	0	100	–45
g	7	25	10	330	100