Orbital Motions for Different Initial Conditions

We shall determine the orbits of mass *m1* for the three sets of initial conditions shown in Table 9.1. Although the type of orbit realized in each case is not known *a priori*, the orbit type that was determined after analyzing the numerical results is also shown in the last column of the table.

Using the methods

x1 = r, x3 = θ

x2 = x4 =

Write set of four first-order differential equations:

= x2, = x1 -

= x4, =

