

At this maximum distance, since specific energy is conserved, it must have its *minimum* speed  $v_{\text{ap}}$  relative to the primary, with

$$\frac{1}{2}v_{\text{ap}}^2 = \epsilon - \frac{1}{2}\omega^2 r_{\text{max}}^2.$$

Since  $r_{\text{ap}}$  is a maximum in  $r$ , the velocity  $\vec{v}_{\text{ap}}$  must be perpendicular to  $\vec{r}_{\text{ap}}$ . I now cunningly choose my initial time ( $t = 0$ ) to be an instant when  $r = r_{\text{ap}}$ . I orient my cartesian coordinates so that  $(x_0, y_0) = (r_{\text{ap}}, 0)$  and  $(v_{x0}, v_{y0}) = (0, v_{\text{min}})$ . Using this set of coordinates, Equations 1.K.x and 1.K.y simplify to

$$x(t) = r_{\text{ap}} \cos \omega t \quad (1.L.x)$$

$$y(t) = \frac{v_{\text{ap}}}{\omega} \sin \omega t. \quad (1.L.y)$$

Thus, in these coordinates, I can write

$$\frac{x(t)^2}{r_{\text{ap}}^2} + \frac{y(t)^2}{v_{\text{ap}}^2/\omega^2} = \cos^2 \omega t + \sin^2 \omega t = 1,$$

which is the equation for an ellipse whose axes correspond to the  $x$  and  $y$  axis. The semimajor axis of the ellipse is  $a = r_{\text{ap}}$  and the semiminor axis is  $b = v_{\text{ap}}/\omega$ .

*b) What is the dependence of the secondary's orbital period  $\mathcal{P}$  on the semimajor axis  $a$  of its orbit?*

Since the orbital period is  $\mathcal{P} = 2\pi/\omega$ , and  $\omega$  depends only on the total mass  $m_1 + m_2$  and the constant  $H$ , the orbital period  $\mathcal{P}$  is **independent** of the semimajor axis  $a$ .

*1.5) Consider a different system consisting of two point masses with  $m_1 > m_2$ . These masses are attracted to each other by a central force  $F$  whose amplitude is given by the inverse cube law*

$$F = \frac{K m_1 m_2}{r^3}, \quad (1.M)$$

*where  $K$  is a constant with units  $\text{cm}^4 \text{g}^{-1} \text{s}^{-2}$ . This potential does not, in general, have a neat analytic form for orbital shapes. However, we can look at limiting cases.*

*a) Suppose the point masses start at rest relative to each other, with a separation  $r$ . How long will it be until the attractive force causes the masses to meet? [Hint: a numerical solution of a differential equation may be useful here.]*

## Barbara Ryden Solution

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