

At this maximum distance, since specific energy is conserved, it must have its *minimum* speed v_{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_{ap} is a maximum in r , the velocity \vec{v}_{ap} must be perpendicular to \vec{r}_{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

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

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

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 ω 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

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

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.]

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BM King



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