Circular orbits

Consider the two-body problem where the solution for the relative coordinates is a circular orbit of unit radius, that is,

$$\mathbf{r} = \cos(\omega t)\mathbf{i} + \sin(\omega t)\mathbf{j}.$$

Sketch the orbits of m_1 and m_2 for (a) $m_1 = m_2$ and (b) $m_1 = 3m_2$.

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