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Solution: Let the stars be at distances r_1 and r_2 from the
center of mass; clearly we have $M_1 r_1 = M_2 r_2$ $r_1 + r_2 = a$
 $G m_1 a^2 = v^2 2 r_2$ $G m_2 a^2 = v^2 1 r_1$. The first two equations
give $r_1 = \frac{M_2}{M_1 + M_2} a$ $r_2 = \frac{M_1}{M_1 + M_2} a$. Since the stars
are always separated by a distance a , star 1 feels a

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gravitational acceleration $\ddot{r}_1 = GM_2/a^2$ and star 2 feels an acceleration $\ddot{r}_2 = GM_1/a^2$. Equating

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