Advanced Chemistry, 2008 Winter Quarter – Week 7 Homework

For a rigid rotor that has masses m_1 and m_2 connected by a rigid bond of length R as shown below, show that

$$r_1 = \frac{(m_2)}{(m_1 + m_2)} R$$
 and $r_2 = \frac{(m_1)}{(m_1 + m_2)} R$

