



$$\begin{aligned}
 \frac{m_1}{r_1 + m_1} &= \frac{m_1}{r_1 + m_1} \\
 \frac{m_2}{r_2 + m_2} &= \frac{m_2}{r_2 + m_2} \\
 \frac{m_1}{r_1 + m_1} &= \frac{m_2}{r_2 + m_2} \\
 \frac{m_1}{r_1 + m_1} &= \frac{m_2}{r_2 + m_2} \\
 \frac{m_1}{r_1 + m_1} &= \frac{m_2}{r_2 + m_2}
 \end{aligned}$$