



$$T = \frac{1}{2} m_1 \dot{r}_1^2 + \frac{1}{2} m_2 \dot{r}_2^2$$

$$U = U(r) + m_1 g z_1 + m_2 g z_2 \quad \mathcal{L} = T - U$$

$$L = T - U$$

$$L = \frac{1}{2} m_1 \dot{r}_1^2 + \frac{1}{2} m_2 \dot{r}_2^2 - (U(r) + m_1 g z_1 + m_2 g z_2)$$

$$\vec{R} = \frac{m_1 \vec{r}_1 + m_2 \vec{r}_2}{M}, \quad \vec{r} = \vec{r}_1 - \vec{r}_2$$

Express \vec{r}_1 and \vec{r}_2 in terms of \vec{R} and \vec{r} .

$$i) \quad \vec{R} = \frac{m_1 \vec{r}_1 + m_2 (\vec{r}_1 - \vec{r})}{M}$$

$$M \vec{R} = m_1 \vec{r}_1 + m_2 \vec{r}_1 - m_2 \vec{r} \\ = \vec{r}_1 (m_1 + m_2) - m_2 \vec{r}$$

$$\frac{M \vec{R} + m_2 \vec{r}}{m_1 + m_2} = \vec{r}_1$$

$$\vec{r}_1 = \vec{R} + \frac{m_2}{m_1 + m_2} \vec{r}$$

$$ii) \quad M \vec{R} = m_1 (\vec{r}_1 - \vec{r}_2) + m_2 \vec{r}_2 \\ = m_1 \vec{r}_1 - m_1 \vec{r}_2 + m_2 \vec{r}_2$$

$$\frac{M \vec{R} - m_1 \vec{r}}{m_1 + m_2} = \vec{r}_2$$

$$\vec{r}_2 = \vec{R} - \frac{m_1}{m_1 + m_2} \vec{r}$$

$$\vec{r}_1 = \vec{R} + \frac{m_2}{m_1 + m_2} \vec{r}$$

$$\vec{r}_2 = \vec{R} - \frac{m_1}{m_1 + m_2} \vec{r}$$

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