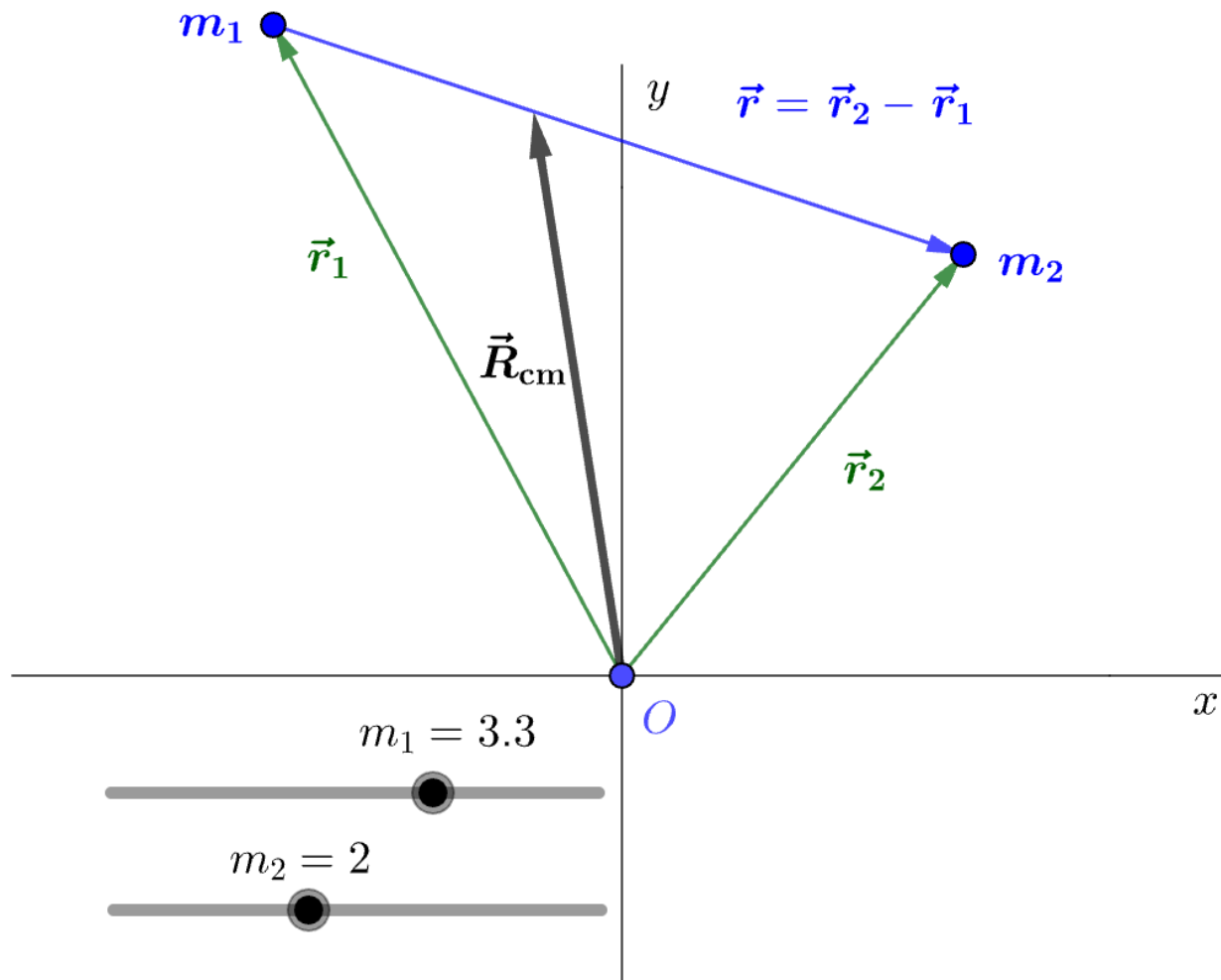


1. **Play with the simulation:** <https://books.physics.oregonstate.edu/GCF/rcm.html>

- What happens if $m_1 = m_2$, how about $m_1 = 0$ or $m_2 = 0$?
- What happens if you move m_1 and m_2 ?
- What happens if you move the origin? (How does changing the origin affect the vector diagram? What stays the same?)



- Based on the graph, how can you draw or describe the position of m_1 in terms of $\vec{R}_{\text{cm}}$ and another vector?
- Based on the graph, how can you draw or describe the position of m_2 in terms of $\vec{R}_{\text{cm}}$ and another vector?