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We can also guess the solutions. For example, if we set $\eta_1 = -\eta_3$ and $\eta_2 = 0$, then $\eta_1(t) = \eta_1(0)\cos(\lambda_1 t + \theta_0)$. The other eigenmode corresponds to a motion with $\eta_1 = \eta_3$ and $2m\eta_1 = -M\eta_2$, in which case we get $\eta_1(t) = \eta_1(0)\cos(\lambda_2 t + \theta_0)$. The most general motion is a combination of the three eigenmodes, $\eta(t) = a\mathbf{1}$.

Lecture Notes in Classical Mechanics (80751)

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