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appreciate Newton's great achievement - that the dynamics of the classical universe can be understood via the solutions of differential equations - and this leads on to questions regarding determinism and the effects of even small uncertainties or disturbances. One learns further that even when Newton's dynamics fails, many of

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The solution is $M \sin \theta \cos \theta \sin \theta = Q \sin \theta$, $m \sin \theta + M \sin \theta \sin \theta \sin \theta \sim Q \sin \theta + M \sin \theta \cos \theta \sin \theta$, $m \sin \theta \cos \theta \sin \theta = -a \sin \theta + M \sin \theta$ There are other ways to do this. Here is the Lagrangian: $L = \frac{1}{2} m \dot{q}^2 + \frac{1}{2} M \dot{Q}^2 + mgq$, where q is the position of m (y positive downward) and Q is the horizontal position of M .

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$ds = +dx \sin \theta = R d\theta$ (1) which, using $y = x^2$, yields $2x dx = R d\theta$ (2) If we want the equation of constraint in other than a differential form, (2) can be integrated to yield $2x = R \theta$ (3) where A is a constant obtained from the initial conditions. The radius of curvature of a parabola,

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$Dq(t) e^{iS(q(t))} = - (4.206)$ The N here is just a normalisation constant to ensure that probabilities add up to one: i.e. $\int Dq(t) e^{iS(q(t))} = 1$. The tricky part of this formula is the integral: it is a sum over all possible paths from $q = q_i$ at time 0 to $q = q_f$ at time T . These paths are weighted with their action.

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