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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

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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 $M \sin \theta \cos \theta a_x = Q_0$, $m \sin^2 \theta + M' (m + M) \sin^2 \theta a_y \sim Q_0$, $m \sin \theta \cos \theta A = -a_7$, $r \sin^2 \theta + M^3$ There are other ways to do this. Here is the Lagrangian: $L = \frac{1}{2} m |\dot{q}|^2 + \frac{1}{2} M \dot{Q}^2 + mgqy$, where q is the position of m (y positive downward) and Q is the horizontal position of M .

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$ds = \sqrt{dx^2 + dy^2} = R d\theta$ (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 $\frac{1}{2} \ln \left(\frac{24}{24} \right) = \frac{1}{2} \ln \left(\frac{24}{24} \right)$.
 $x^2 = \frac{1}{2} R \theta + A$ (3) where A is a constant obtained from the initial conditions. The radius of curvature of a parabola,

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$Dq(t) e^{iS[q(t)]} = \sim (4.206)$ The N here is just a normalisation constant to ensure that probabilities add up to one: i.e. $\int R^j$

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$\int_{q_i}^{q_f} p dq = 1$. 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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