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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 $M \sin \theta \cos \theta \dot{x} = Q \circ$, $m \sin 2\theta + M' \cdot (m + M) \sin 2\theta \dot{y} - Q \cos 2\theta + M' \cdot m \sin \theta \cos \theta \dot{A} = -a \cdot 7$, $\cdot \cos 2\theta + M3$ There are other ways to do this. Here is the Lagrangian: $L = \frac{1}{2} m \dot{q}^2 + \frac{1}{2} M \dot{Q}^2 + mgy$, where q is the position of m (y positive downward) and Q is the horizontal position of M .

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 $ds = r dx dy = R d\theta$ (1) which, using $y = x^2$, yields $2214 + ax dx = R d\theta$ (2) If we want the equation of constraint in other than a differential form, (2) can be integrated to yield $2 \cdot 41 \cdot 1 \ln(\cdot 24) \cdot 24 \cdot x \cdot ax \cdot ax \cdot a \cdot AR = \theta + \dots + 2 + 1$ (3) where A is a constant obtained from the initial conditions. The radius of curvature of a parabola,

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 $Dq(t) = \int_{t_0}^t S(q(t), q_0) dq_0$ The N here is just a normalisation constant to ensure that probabilities add up to one: i.e. $\int |q| |2dq| = 1$. The tricky part of this formula is the integral: it is a sum over all possible paths from $q = q_0$ at time 0 to $q = q_1$ at time T . These paths are weighted with their action.

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