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Prob.1 Given that $z = 4ay^2$ Let us take $z = 4cy^2$ We can write the Lagrangian Equations for this motion
 $T = m(\dot{r}^2 + r\dot{\theta}^2 + \dot{z}^2)$
 $U = mgz$
In our case $r = y$ and $z = cy^2$ so we can say that $\dot{z} = 2cy\dot{y}$ and we know that $\theta = t$ and $\dot{\theta} = 1$ Now we can write the Lagrangian as $L = T - U$
 $L = m(\dot{y}^2 - 2cy\dot{y}^2 - y^2)$...

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4 Goldstein 8.26 4.1 Part (a) In the given con guration, both springs elongate or compress by the same magnitude. Suppose q denotes the position of the mass m from the left end. At $t = 0$, $q(0) = a = 2$, but the unstretched lengths of both springs are given to ...

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 $T = (x + zm)^2 + m(x + L\cos\theta)^2 + (2ax + L\sin\theta)^2$
 $2mn^o = (1 + 4a^2x^2)x^2 + L^2 + 2Lx[\cos + 2ax\sin]$.

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$1 + k_2(Q + b \sin(\!t)) 2 (54)$ The Hamiltonian is now explicitly dependent on time, and hence is not conserved, as is confirmed by the fact that $dH/dt \neq 0$. The energy is given by $E = T + V = 1 2 (Q + b \cos(\!t)) 2 + 1 2 (k_1 + k_2)(Q + b \sin(\!t)) 2 (55)$ So, $dE/dt = m(Q + b \cos(\!t))(Q + b \sin(\!t)) + (k_1 + k_2)$.

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Solutions Goldstein Chapter 9. CHAPTER 9 – CANONICAL TRANSFORMATIONS
DERIVATIONS: 9.4. Show directly that the transformation is canonical. 9.4. Sol. We are given a transformation as follows, We know that the fundamental Poisson Brackets of the transformed variables have the same value when evaluated with respect to any canonical coordinate set.

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We use the first constraint to solve for the coordinate r : $r = R + a$, $r' = r'' = 0$. We use this solution in Lagrange's equations for r , $-\dot{m}(R + a)^2 + mg \sin \theta = m(R + a)^2 \ddot{\theta} + mg(R + a) \cos \theta = \mu(R + a)$ (6) (7) We use the rolling constraint to find an expression for θ as a function of r : $\dot{\theta} = -\dot{a} + R \dot{\theta} + 0$ (8)

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