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Goldstein-solution-chapter-8-(2--20-26-35)  $1 + k. 2)(Q + b \sin(t))^2(54)$  The Hamiltonian is now explicitly dependent on time, and hence is not conserved, as is con rmed by the fact that  $dH = dt6 = 0$ . 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,  $dE / dt = m(Q_ + b \cos(t))(Q b 2 \sin(t)) + (k. 1 + k.$

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Goldstein-Solutions-Chapter-8—btgresearch.org 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.

Goldstein—CHAPTER-9-[SOLUTIONS]—BragiOH.com 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  $\dot{\theta}$  as a function of  $\dot{r}$ :  $\dot{\theta} = -\dot{a} + R \dot{\theta} + \dot{0} a$  (8)