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The constraint that the mass is on the wedge is  $r = R + l(\cos \theta, \sin \theta)$ , or  $x = X + l \cos \theta$  and  $y = l \sin \theta$  where  $l$  is the distance the mass traveled down the wedge. This is one constraint, which we can express as a function of  $x, y, X$  as  $f = (x - X) \sin \theta - y \cos \theta = 0$ .

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4 Goldstein 8.26 4.1 Part (a) In the given configuration, 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 be zero. Therefore, the elongation (compression) of spring  $k_1$  is  $q$  and the compression (elongation) of spring  $k_2$  is  $q$ . The potential energy ...

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Goldstein Chapter 1 Derivations Michael Good June 27, 2004 1 Derivations 1. Show that for a single particle with constant mass the equation of motion implies the following differential equation for the kinetic energy:  $dT/dt = F \cdot v$  while if the mass varies with time the corresponding equation is  $d(mT)/dt = F \cdot p$ . Answer:  $dT/dt = d(1/2 mv^2)/dt = mv \cdot v' = ma \cdot v = F \cdot v$  with time variable mass,  $d ...$

Homework 9 | Hamiltonian Mechanics | Differential Geometry

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written as  $l a x^2 b y x c x$  goldstein solutions chapter 8 3no7m3gwg3ld classical mechanics solutions of assignment 1 august 23 2015 prob1 given that  $z = 4ay^2$  let us take  $z = 4cy^2$  we can write the lagrangian equations for this motion  $1 t m r^2 r^2 z^2 z^2 u mgz$  in our case  $r = y$  and  $z = cy^2$  so we can say that  $z = 2cy^2$  and we know that  $t$  and now we can write the download goldstein classical mechanics ...

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Goldstein Chapter 8 Solutions - Goldstein 817 Find the Hamiltonian for the system described in Exercise 19 of Chapter 5 and obtain Hamilton ' s equations of motion for the system Use both the direct and the matrix approach in finding the Hamiltonian The problem is a to consider a uniform bar of length  $2l$  and mass  $m$  Goldstein

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Homer Reids Solutions to Goldstein Problems: Chapter 8. Problem 8.6 A Hamiltonian of one degree of freedom has the form  $H = \frac{1}{2} a p^2 + \frac{1}{2} b q^2 + \frac{1}{2} c p q$  where  $a$ ,  $b$ ,  $c$ , and  $k$  are constants. Note: I think there must be a misprint in the book; the coefficient of  $p^2$  in the first term is printed there as  $1/2$ , which doesnt make sense dimensionally in light of the rest of the terms in ...

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