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particular case of the use of conserved quantities discussed in Chapter 3. 2.2 Lagrange Multipliers We must minimize with the constraints $z(0) = z_0$, $z(a) = Z_1$, and $\int_0^a z(x)^2 dx = L$. One can transform the problem into ... Solutions 173 2. In these variables, which are the same as those used by Dirac in the quantum harmonic oscillator, $H = w(a$...

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Figure 2 - illustrating that two solutions for k are possible whenever $\alpha > \alpha_0$ Goldstein, Classical Mechanics Second Edition Problem 2-6: The broken segment solution described in the text (p.

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$(\cos^2 p) \cot p = \frac{1}{q} \left(\frac{1}{q} \sin p \right) \Rightarrow [Q;P]_{q;p} = \frac{1}{q} \sin p \sin p = \frac{1}{q^2} \cos^2 p \cot p = \frac{1}{q} \cos p \Rightarrow [Q;P]_{q;p} = \frac{1}{q^2} \cot^2 p \Rightarrow [Q;P]_{q;p} = 1) [Q;P]_{q;p} = [Q;P]_{Q;P}$ Hence Proved. 9.5. Show directly that for a system of one degree of freedom, the transformation $Q = \arctan \frac{q}{p}$ $P = \frac{1}{2} \left(1 + \frac{2q^2}{p^2} \right)$ is canonical, where q is an arbitrary constant of suitable dimensions. Sol.9.5.

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