

Classical Mechanics Problem Solutions

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"Classical Mechanics" by Herbert Goldstein "Mathematical Methods of Classical Mechanics" by Vladimir Arnold Class Schedule: Tu,Th 12:00-1:20 No classes on: Tuesday, October 8 Thursday, October 10 Tuesday, November 5 Thursday, November 7 Make-up classes Mondays, 9:30-10:20 on: October 14 October 21 October 28 November 4

Physics 316--Classical Mechanics
contents 1 vectors and kinematics 1 2 newton's laws 21 3 forces and equations of motion 33 4 momentum 54 5 energy 72 6 topics in dynamics 89 7 angular momentum and fixed axis rotation 105 8 rigid body motion 138 9 noninertial systems and fictitious forces 147 10 central force motion 156 11 the harmonic oscillator 171 12 the special theory of relativity 182 13 relativistic dynamics 196

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Solutions: 6 - Oct 2 - Oct 6 : 3- Central Force Problem: 3-8 Kepler's laws, motion in time, Kepler's equation. 3-6 Bertrand's theorem, virial theorem. Friday: Fall Holiday : Hwk #6: Ch 3(Scattering): 7, 30, 32, 34, 35 (due Mon Oct 16, 11:30am) Only one problem of (34) and (35) is required, if you solve both, it's for extra credit!. Solutions: 7 ...

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