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Classical mechanics - Wikipedia

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For example, consider a falling body. $F=ma$ gives $-mg=ma$, which can be written as $-\ddot{y}=g$, where a dot denotes a

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time derivative. This is a rather simple differential equation, and you can quickly guess that $y(t) = -gt^2/2$ is a solution. Or, more generally with the constants of integration thrown in, $y(t) = y_0 + v_0t - gt^2/2$.

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and Newton's law of universal gravitation. The three-body problem is a special case of the n -body problem.

Three-body problem - Wikipedia

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Introduction to Classical Mechanics: With Problems and ...

CHAPTER 0 Contents Preface v Problems
Solved in Student Solutions Manual vii 1
Matrices, Vectors, and Vector Calculus 1
2 Newtonian Mechanics—Single Particle
29 3 Oscillations 79 4 Nonlinear
Oscillations and Chaos 127 5 Gravitation

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149 6 Some Methods in The Calculus of
Variations 165 7 Hamilton's
Principle—Lagrangian and Hamiltonian
Dynamics 181

Contents

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