Problems and Solutions in Introductory Mechanics - David Morin

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2 Kinematics in 1D

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2.3 Problems

Problem 2.3.9 (Dropped and thrown balls)

A ball is dropped from rest at height h. Show that the distances fallen the first second, the second second, the third, etc., are in the ratio of $1 : 3 : 5 : 7$...

I tell you hwat