

Download Equations Of Projectile Motion Pdf

equations of motion for constant acceleration. These equations are used to develop the These equations are used to develop the equations for projectile motion. What is projectile? Projectile -Any object which projected by some means and continues to move due to its own inertia (mass). Equations of Motion Introduction: ... A projectile has only two forces acting on it, force of gravity and air resistance. The force of gravity only influences vertical velocity, and is a constant value of 9.81ms^{-2} . Air resistance influences horizontal velocity, but is generally ignored due to its effect being negligible. A projected object, that is released and lands at the same height, has ...path of a particle in projectile motion. The equation shows that the path is parabolic. Simplifying the last equation, we get: $y = (x \tan \theta) - \frac{g x^2}{2 u^2 \cos^2 \theta}$...