

# PROJECTILE MOTION

## 1. PROJECTILE THROWN AT AN ANGLE WITH HORIZONTAL



- Consider a projectile thrown with a velocity  $u$  making an angle  $\theta$  with the horizontal.
- Initial velocity  $u$  is resolved in components in a coordinate system in which horizontal direction is taken as  $x$ -axis, vertical direction as  $y$ -axis and point of projection as origin.  
 $u_x = u \cos \theta$                        $u_y = u \sin \theta$
- Again this projectile motion can be considered as the combination of horizontal and vertical motion. Therefore,

Horizontal direction	Vertical direction
(a) Initial velocity $u_x = u \cos \theta$	Initial velocity $u_y = u \sin \theta$
(b) Acceleration $a_x = 0$	Acceleration $a_y = g$
(c) Velocity after time $t$ , $v_x = u \cos \theta$	Velocity after time $t$ , $v_y = u \sin \theta - gt$

### 1.1 Time of flight :

The displacement along vertical direction is zero for the complete flight.  
Hence, along vertical direction net displacement = 0

$$\Rightarrow (u \sin \theta) T - \frac{1}{2} gT^2 = 0 \qquad \Rightarrow \qquad T = \frac{2u \sin \theta}{g}$$

### 1.2 Horizontal range :

$$R = u_x \cdot T \qquad \Rightarrow \qquad R = u \cos \theta \cdot \frac{2u \sin \theta}{g}$$

$$R = \frac{u^2 \sin 2\theta}{g}$$

### 1.3 Maximum height :

At the highest point of its trajectory, particle moves horizontally, and hence vertical component of velocity is zero.

Using 3<sup>rd</sup> equation of motion i.e.

$$v^2 = u^2 + 2as$$

we have for vertical direction

$$0 = u^2 \sin^2 \theta - 2gH \qquad \Rightarrow \qquad H = \frac{u^2 \sin^2 \theta}{2g}$$

# Iit Jee Projectile Motion Problems

**N Noddings**



## **Iit Jee Projectile Motion Problems:**

## Reviewing **Iit Jee Projectile Motion Problems**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Iit Jee Projectile Motion Problems**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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