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## **Projectile Motion Y(final)Projectile Motion Y(final) 0**

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FIGURE 4-4 Launch Angle Of A Projectile (a) A projectile launched at an angle above the horizontal, a launch below the horizontal would correspond to (b) a projectile launched horizontally, in this section we consider the next section deals with  $u \geq 0$ .  $u = 0$ .  $u = 0$ .  $u < 0$ .  $u > 0$ .!  $x y o h = 1.2$  2th, 2024

## **Mechanics Relative Motion And Projectile Motion**

Projectile Trajectory Suppose We Want To Know The Height Of A Projectile (relative To Its Launch Point) In Terms Of Its X Coordinate. Suppose It Is Launched At An Angle Above The Horizontal, With Initial Velocity  $V_i$ . For The X-direction:  $X = V_i \cos \theta t$  For The Y-direction:  $Y = V_i \sin \theta t - \frac{1}{2}gt^2$ , 2024

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An Apple Is Launched Directly Upward At 64 Feet Per Second From A Platform 80 ... 961 2a. -32 -32 Round Hualre4'V'1 PROJECTILE MOTION It's An Initial Upward Velocity Of 90 Feet Per Second. = 563 -32 1. A Soccer Ball Is Kicked From 16t<sup>2</sup> + 90t Gives The Height 2t<sup>2</sup>, 2024

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6. (G19) A Tiger Leaps Horizontally From A 7.5 M High Rock With A Speed Of 4.5 M/s. How Far From The Base Of The Rock Will She Land? Answer: 5.6 M 7. (G27) A Ball Thrown Horizontally At 22.2 M/s From The Roof Of A Building Lands 36.0 M From The Base Of 1th, 2024

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### **Horizontal Projectile Motion Problems**

A Tiger Leaps Horizontally At 15 M/s Across A 20 Meter Wide Gorge On A Trail. The Edge She Leaves Is Level With The Edge She Is Aiming For. With Front Legs Outstretched, She Can Grab And Claw Her Way Up Over The Opposite Ledge As Long As She Doesn't Have To Re 1th, 2024

### **The Mathematics And Physics Of Projectile Motion**

The Vertical Motion Is Defined By  $V_y = V \sin \theta - 32t$  Where 32t Represents The Acceleration Downward (32 Ft/sec<sup>2</sup>). In Other Words, Gravity Pulls The Projectile Downward At A Velocity Of 32t Feet In T Seconds. We Let Y = How Far Above The Ground The Projectile Be At Any Time T. Hence  $Y = Vt \sin \theta - 16t^2$ . This Means That The Projectile Rises 2th, 2024

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Essential For Thorough Scientific Understanding In This Concise Book, R. Shankar, A Well-known Physicist And Contagiously Enthusiastic E 2th, 2024

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Other Applications Of Two-dimensional Motion, Such As Circular Motion Or The Elliptical Orbits Of Planets And Comets. Therefore, Vector Addition Is An Important Subject In The Field Of Mechan-ics—a Branch Of Physics That Studies How Phys-ical Bodies Behave When Subjected To Forces Or Displacements. To Un



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