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Projectile Motion Y(final) Projectile Motion Y(final)  $0 Y_y Y V_y g t A G = - =$  The Motion: horizo Lnta  $A X = 0 2 0 0 y 2 G Y_y V_t T - = - 0 0 0 X_x X V_v X_x V_t - = = 2 2 0 0 2 ( ) 1 V_v G_y Y_y - = - - 0 0 2 2 1 Y_y V_v t Y_y Y_y V_t G_t - = + 0 = + Y 2 - = +$  Write Down What You Know: Pick The Equations That Let You Solve The Problem 1th,

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Pathway Can Be Modeled By  $H = A$ . Find The Maximum Height Of The Cannonball. . Find The Time It Will Take For The Cannonball To Reach The Ground.  $-16tz + 123t$ . Name: Date: Area Problems: Bell: Unit 8:

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Key Topic: Parametric, Vector And Polar Functions  
Abstract: In This Activity We Derive The Vector Model Of Projective Motion, And Then We Derive The Parametric Model From The Vector Model. An Example Is Then Supplied Which Shows The Student How To Solve A Typical Projectile Motion Problem Using The TI-89. 2th, 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 ( $32 \text{ Ft/sec}^2$ ). 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  
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Projectile Motion With Resistance And The Lambert W Function  
Consider A Projectile That Starts At The Origin And Is Shot At An Angle  $\theta$  With An Initial Velocity  $V$  As Pictured In Figure 1.  $R \ V \ (0,0)$  Figure 1. Projectile Motion With Elevation Angle  $\theta$  And Initial Velocity  $V$  Working With Horizontal And Vertical Accelerations, We Get The Simple Uncoupled Pair Of Differential Equations  $X \dots$  2th, 2024  
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