

Calculate the components of the following projectile's velocities:

- $v = 35 \text{ m/s}$, $\theta = 15^\circ$ $v_x = 34 \text{ m/s}$, $v_y = 9 \text{ m/s}$
- $v = 35 \text{ m/s}$, $\theta = 30^\circ$ $v_x = 30 \text{ m/s}$, $v_y = 18 \text{ m/s}$
- $v = 35 \text{ m/s}$, $\theta = 45^\circ$ $v_x = 25 \text{ m/s}$, $v_y = 25 \text{ m/s}$
- $v = 35 \text{ m/s}$, $\theta = 60^\circ$ $v_x = 18 \text{ m/s}$, $v_y = 30 \text{ m/s}$
- $v = 35 \text{ m/s}$, $\theta = 75^\circ$ $v_x = 9 \text{ m/s}$, $v_y = 34 \text{ m/s}$
- $v = 35 \text{ m/s}$, $\theta = 90^\circ$ $v_x = 0 \text{ m/s}$, $v_y = 35 \text{ m/s}$

- ❖ We can reverse the process and combine the two components of velocity back into one velocity fired at an angle.
- ❖ The magnitude of velocity is found using the Pythagorean Theorem with v_x and v_y as the legs of a right triangle. For instance, the velocity of a projectile with an x-component of 7.2 and a y-component of 4.8 is $\sqrt{7.2^2 + 4.8^2} = 8.7 \text{ m/s}$.
- ❖ The angle above the horizontal is found using the inverse tangent (\tan^{-1}) of the legs v_y/v_x . For instance, the angle of the projectile described above would be $\tan^{-1}\left(\frac{4.8}{7.2}\right) = 34^\circ$.

Calculate the velocity magnitude and angle of the projectiles listed below:

- $v_x = 5.6$, $v_y = 6.4$ $v = 8.5 \text{ m/s}$, $\theta = 49^\circ$
- $v_x = 2.8$, $v_y = 4.9$ $v = 5.6 \text{ m/s}$, $\theta = 60^\circ$
- $v_x = 8.1$, $v_y = -7.2$ $v = 11 \text{ m/s}$, $\theta = -42^\circ$
- $v_x = -1.3$, $v_y = -5.2$ $v = 5.4 \text{ m/s}$, $\theta = -101^\circ$

Conclusion Questions:

- Without air resistance, the piano travels further ~~the same distance as the football~~ (circle)
- This is due to the fact that velocity in the X-direction increases ~~is constant~~ decreases as projectiles travel.
- The Y-component of velocity increases / is constant ~~decreases~~ as projectiles travel.
- The answers to #2 and #3 are due to the fact that gravity acts only in the Y / both the X and Y direction.
- The path of a projectile is a linear curve / round curve parabolic curve
- This is due to the fact that the time component in the free fall equation (Δy) is squared.
- Without air resistance, maximum range of a projectile is obtained with an angle of 45° .
- The same range can be obtained with angles of 30° and 60° (any complementary angles)
- Firing a projectile at 25 m/s at an angle of 35° is similar to firing a projectile with a speed of 14.3 m/s straight up and 20.5 m/s horizontally.
- A projectile with a horizontal component of 13 m/s and a vertical component of 18 m/s would have an overall velocity of 22.2 m/s at an angle of 54.2° above the horizontal.



$$v = \sqrt{v_x^2 + v_y^2}$$

$$\theta = \tan^{-1}\left(\frac{v_y}{v_x}\right)$$

Projectile Motion Simulation Lab Answers

Judd E. Hollander



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transverse center of gravity jump velocity in two cases For the two cases the difference in predicted and experiment is shown to occur when a high average rate is seen at the muzzle exit and is probably due to the timing error associated with muzzle exit

A Laboratory Simulation of Low Velocity Projectile Impact on Thin Plates Paul Graham Cartmel,1999

Projectile Motion Polycorp New Zealand Limited,1983

Modeling and Simulation of a Differential Roll Projectile

,2000 This report develops the equations of motion for a differential roll projectile configuration with seven degrees of freedom The dynamic equations are generated generically such that the forward and aft components are mass unbalanced A hydrodynamic bearing exists between the forward and aft components which couples the roll degree of freedom A simulation investigation shows that bearing resistance and forward aft body mass ratio are the dominant factors in determining the roll dynamics For spin rates typical of fin stabilized projectiles the trajectory is essentially independent of both bearing resistance and mass ratio

On a Moving Boundary Problem of Transitional Ballistics Jen-Ing G. Hwang,1987

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