

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

Lauren Gardner



Projectile Motion Simulation Lab Answers:

Resources in Education ,1986 **Energy Research Abstracts** ,1993 **College Physics** Jerry D. Wilson,2000
Microcomputer Software Directory ,1983 Current Index to Journals in Education ,1997 *Applied Mechanics Reviews* ,1989 AAPT Announcer American Association of Physics Teachers,1987 Scientific and Technical Aerospace Reports ,1983 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Educational Resources for Microcomputers ,1986 *Government Reports Announcements* ,1974-02-22 Government Reports Announcements & Index ,1974 **Announcer** American Association of Physics Teachers,2000 Bulletin of the Atomic Scientists ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *The software catalog microcomputers* Menu (Firm) (Fort Collins, Colo.),1989

Three-Dimensional Simulations of Normal Impact of Projectiles on Moving Targets ,1993 Three dimensional simulations of normal impact of 38 16 mm long steel cylinders of L D 6 on thin 1 59 mm aluminum plates which are themselves in motion have been conducted using the HULL code on Cray supercomputers HULL is an Eulerian code that uses a finite difference scheme to solve partial differential equations of continuum mechanics An elastic perfectly plastic model was used to describe the strain response of the target and the projectile Simulations for projectile velocities of 219 m s and 876 m s with die plates moving laterally edge on at 40 m s and 160 m s respectively are compared with cases when the plates are stationary The transverse plate motion perpendicular to the projectile results in a time dependent alteration of projectile motion and produces a tearing of the plate in addition to the plugging that would occur if the plate were stationary The results of the simulations are presented as graphic time histories of the physical quantities including sum waves in rod plate interaction These results show that if an armor plate is set in relative transverse motion with respect to an incidental projectile it acquires a greater protection capability than the corresponding stationary plate This has implications for armor applications for live fire testing and for vulnerability and lethality analyses **Validation of the U.S. Army Research Laboratory's Gun Dynamics Simulation Codes for Prototype Kinetic Energy** ,2003 This report compares a priori gun projectile dynamic simulations to experimental ballistic jump test data for seven 120 mm prototype kinetic energy KE projectiles and describes the methodology used for the comparison The projectiles contain significant differences in their charge subprojectile and sabot designs that span the design parameters encountered in KE cartridge development In such tests four or more sets of orthogonal radiograph images x rays which are typically used to characterize the state of the projectile at muzzle exit can be directly compared to predictions from ARL s gun projectile dynamic simulation GPDS codes The results from these comparisons show that the GPDS codes were able to predict the ballistic experimental results except

for the 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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