

Calculate the components of the following projectile's velocities:

- |   |   |
|---|---|
| 1. $v = 35 \text{ m/s}$ , $\theta = 15^\circ$ $v_x = 34 \text{ m/s}$ , $v_y = 9 \text{ m/s}$  | 4. $v = 35 \text{ m/s}$ , $\theta = 60^\circ$ $v_x = 18 \text{ m/s}$ , $v_y = 30 \text{ m/s}$ |
| 2. $v = 35 \text{ m/s}$ , $\theta = 30^\circ$ $v_x = 30 \text{ m/s}$ , $v_y = 18 \text{ m/s}$ | 5. $v = 35 \text{ m/s}$ , $\theta = 75^\circ$ $v_x = 9 \text{ m/s}$ , $v_y = 34 \text{ m/s}$  |
| 3. $v = 35 \text{ m/s}$ , $\theta = 45^\circ$ $v_x = 25 \text{ m/s}$ , $v_y = 25 \text{ m/s}$ | 6. $v = 35 \text{ m/s}$ , $\theta = 90^\circ$ $v_x = 0 \text{ m/s}$ , $v_y = 35 \text{ m/s}$  |

- ◆ 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:

- |  |   |
|--|---|
| 7. $v_x = 5.6$ , $v_y = 6.4$ $v = 8.5 \text{ m/s}$ , $\theta = 49^\circ$ | 9. $v_x = 8.1$ , $v_y = -7.2$ $v = 11 \text{ m/s}$ , $\theta = -42^\circ$     |
| 8. $v_x = 2.8$ , $v_y = 4.9$ $v = 5.6 \text{ m/s}$ , $\theta = 60^\circ$ | 10. $v_x = -1.3$ , $v_y = -5.2$ $v = 5.4 \text{ m/s}$ , $\theta = -101^\circ$ |

#### Conclusion Questions:

- Without air resistance, the plane 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 ( $\Delta y$ ) is squared.
- Without air resistance, maximum range of a projectile is obtained with an angle of  $45^\circ$ .
- The same range can be obtained with angles of  $30^\circ$  and  $60^\circ$  (*any complementary angles*)
- Firing a projectile at 25 m/s at an angle of  $35^\circ$  is similar to firing a projectile with a speed of  $14.3 \text{ m/s}$  straight up and  $20.5 \text{ m/s}$  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  $54.2^\circ$  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

**G Psacharopoulos**



## **Projectile Motion Simulation Lab Answers:**

*Modeling Problem Solving in Physics with Simulated Experiments* Andrzej Sokolowski, 2025-12-04 Discover the joy of physics with this engaging collection of lab activities Designed to ignite curiosity and sharpen problem solving skills this book features instructional support to explore free online simulated experiments that bring physics to life Perfect for high school and undergraduate students these lab activities are adaptable for both online and in class learning environments Students will predict outcomes explore phenomena and use inductive or deductive reasoning to derive key formulas transforming hypotheses into tangible testable results Each activity fosters interactivity and critical thinking ensuring a rich and rewarding learning experience Dive into a wide range of topics including mechanics electricity and magnetism waves optics and modern physics These self guided activities are ideal for pre lecture preparation concept review or independent exploration of the natural world and its fascinating principles Whether used as assignments or standalone learning tools they empower students to connect theory with practice in an immersive way Embark on a journey of discovery and see how physics comes alive through exploration and scientific inquiry

The Software Encyclopedia 2001 ,2001 College Physics Jerry D. Wilson,2000 Applied Mechanics Reviews ,1989 The Electronic Classroom Erwin Boschmann,1995 Energy Research Abstracts ,1993

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Current Index to Journals in Education ,1997 The software catalog microcomputers Menu (Firm) (Fort Collins, Colo.),1989 Physics Briefs ,1989 Announcer American Association of Physics Teachers,2000 Analysis of Multiple Instructional Techniques on the Understanding and Retention of Select Mechanical Topics Sara Elizabeth Fetsco,2010

**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

The Top Books of the Year Projectile Motion Simulation Lab Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Projectile Motion Simulation Lab Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Projectile Motion Simulation Lab Answers : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://db1.greenfirefarms.com/data/book-search/Documents/how%20to%20start%20content%20marketing%20strategy%20explained%201007.pdf>

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