Calculate the components of the following projectile's velocities:

1.
$$v = 35 \text{ m/s}, \theta = 15^{\circ} \text{ v}_{s} = 31 \text{ d}_{s} \text{ v}_{r} = 9 \text{ d}_{s}$$
4. $v = 35 \text{ m/s}, \theta = 60^{\circ} \text{ v}_{s} = 18 \text{ d}_{s} \text{ v}_{r} = 30 \text{ d}_{s}$

2.
$$v = 35 \text{ m/s}$$
, $\theta = 30^{\circ} \text{ v}_{v} = \frac{10^{\circ} \text{ m/s}}{10^{\circ} \text{ v}_{v}} = \frac{13^{\circ} \text{ m/s}}{10^{\circ} \text{ m/s}} = \frac{13^{\circ} \text{ m/s}}{$

2.
$$v = 35 \text{ m/s}, \theta = 30^{\circ} \text{ v}_x = \frac{90 - 1}{100 - 100} \text{ v}_y = \frac{13 - 1}{100 - 100} \text{ s}. \quad v = 35 \text{ m/s}, \theta = 75^{\circ} \text{ v}_x = \frac{9 - 1}{100 - 100} \text{ v}_y = \frac{34 - 1}{100 - 100} \text{ s}.$$

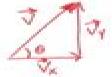
3.
$$v = 35 \text{ m/s}, \theta = 45^{\circ} \text{ v}_{s} = 25 \text{ J}_{s} \text{ v}_{s} = 25 \text{ J}_{s} \text{ v}_{s} = 25 \text{ J}_{s} \text{ v}_{s} = 35 \text{ m/s}, \theta = 90^{\circ} \text{ v}_{s} = 0 \text{ J}_{s} \text{ v}_{s} = 35 \text{ J}_{s} \text{ J}_{s} = 35 \text{ J}_{s} \text{ J}_{s} = 35 \text{ J}_{s} \text{ J}_{s} = 35 \text{ J}$$

- 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_s 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 v-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 (tan¹) of the legs v_u/v_u. For instance, the angle of the projectile described above would be $tan^{-1}\left(\frac{4.8}{3.3}\right) = 34^{\circ}$.

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

Conclusion Questions:

- 1. Without air resistance, the piano travels further of the same distance as the football (circle)
- 2. This is due to the fact that velocity in the X-direction increases / is constant / decreases as projectiles travel.
- 3. The Y-component of velocity increases / is constant / decreases as projectiles travel.
- 4. The answers to #2 and #3 are due to the fact that gravity acts only in the Yy both the X any Y direction.
- 5. The path of a projectile is a linear curve / round curved parabolic curve.
- This is due to the fact that the time component in the free fall equation (Δy) is
- samared Without air resistance, maximum range of a projectile is obtained with an angle of 45°
- 8. The same range can be obtained with angles of _30" and _60" (any complementary angles)
- 9. Firing a projectile at 25 m/s at an angle of 35° is similar to firing a projectile with a speed of /4.3 --/s straight up and 20,5 --/s horizontally.
- 10. A projectile with a horizontal component of 13 m/s and a vertical component of 18 m/s would have an overall velocity of Zz, Z m/s at an angle of 54.2 above the horizontal.



$$J = \sqrt{V_K^2 + V_Y^2}$$

$$\Theta = \tan^{-1}\left(\frac{V_Y}{V_K}\right)$$

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

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

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