

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 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 (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

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