

Calculate the components of the following projectile's velocities:

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

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

#### 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.



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

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

# Escience Lab 7 Projectil Motion Answers

**SA Dillow**



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