

Physics

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(Chapter 4) (Motion in a Plane) (Additional Exercises)
(Class 11)

Answer 4.29:

No.

Range, $R = 3 \text{ km}$

Angle of projection, $\theta = 30^\circ$

Acceleration due to gravity, $g = 9.8 \text{ m/s}^2$

Horizontal range for the projection velocity u_0 , is given by the relation:

$$R = \frac{u_0^2 \sin 2\theta}{g}$$

$$\Rightarrow 3 = \frac{u_0^2}{g} \sin 60^\circ$$

$$\frac{u_0}{g} = \sqrt[3]{3} \quad \dots \text{(i)}$$

The maximum range (R_{\max}) is achieved by the bullet when it is fired at an angle of 45° with the horizontal, that is,

$$R_{\max} = \frac{u_0^2}{g} \quad \dots \text{(ii)}$$

On comparing equations (i) and (ii), we get: $R_{\max} = \sqrt[3]{3} = 2 \times 1.732 = 3.46 \text{ km}$

Hence, the bullet will not hit a target 5 km away.

Question 4.30:

A fighter plane flying horizontally at an altitude of 1.5 km with speed 720 km/h passes directly overhead an anti-aircraft gun. At what angle from the vertical should the gun be fired for the shell with muzzle speed 600 m s^{-1} to hit the plane? At what minimum altitude should the pilot fly the plane to avoid being hit? (Take $g = 10 \text{ m s}^{-2}$).

Answer 4.30:

Height of the fighter plane = 1.5 km = 1500 m

Speed of the fighter plane, $v = 720 \text{ km/h} = 200 \text{ m/s}$

Let θ be the angle with the vertical so that the shell hits the plane.

The situation is shown in the given figure.

Muzzle velocity of the gun, $u = 600 \text{ m/s}$

Time taken by the shell to hit the plane = t

Horizontal distance travelled by the shell = $u_x t$

Distance travelled by the plane = vt

The shell hits the plane. Hence, these two distances must be equal.

$$u_x t = vt \Rightarrow u \sin \theta = v$$

$$\theta = \sin^{-1} \left(\frac{4h_m}{R} \right) = \frac{200}{600} = \frac{1}{3} = 0.33$$

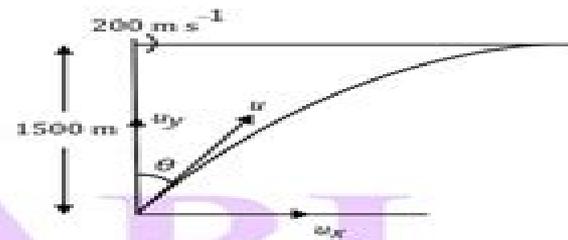
$$\theta = \sin^{-1}(0.33) = 19.5^\circ$$

In order to avoid being hit by the shell, the pilot must fly the plane at an altitude (H) higher than the maximum height achieved by the shell.

$$\therefore H = \frac{u^2 \sin^2 (90 - \theta)}{2g} = \frac{(600)^2 \cos^2}{2g} = \frac{360000 \times \cos^2 19.5}{2 \times 10}$$

$$= 18000 \times (0.943)^2 = 16006.482 \text{ m}$$

$$\approx 16 \text{ km}$$



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Sebastian Brünink



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1. Understanding the eBook Physics Ncert Solutions Pradeep For Class 11
 - The Rise of Digital Reading Physics Ncert Solutions Pradeep For Class 11
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Ncert Solutions Pradeep For Class 11
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Ncert Solutions Pradeep For Class 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Ncert Solutions Pradeep For Class 11
 - Personalized Recommendations
 - Physics Ncert Solutions Pradeep For Class 11 User Reviews and Ratings
 - Physics Ncert Solutions Pradeep For Class 11 and Bestseller Lists
5. Accessing Physics Ncert Solutions Pradeep For Class 11 Free and Paid eBooks
 - Physics Ncert Solutions Pradeep For Class 11 Public Domain eBooks
 - Physics Ncert Solutions Pradeep For Class 11 eBook Subscription Services
 - Physics Ncert Solutions Pradeep For Class 11 Budget-Friendly Options

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 - Physics Ncert Solutions Pradeep For Class 11 Enhanced eBook Features
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 - Highlighting and Note-Taking Physics Ncert Solutions Pradeep For Class 11
 - Interactive Elements Physics Ncert Solutions Pradeep For Class 11
8. Staying Engaged with Physics Ncert Solutions Pradeep For Class 11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Ncert Solutions Pradeep For Class 11
9. Balancing eBooks and Physical Books Physics Ncert Solutions Pradeep For Class 11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Ncert Solutions Pradeep For Class 11
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Ncert Solutions Pradeep For Class 11
 - Setting Reading Goals Physics Ncert Solutions Pradeep For Class 11
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Ncert Solutions Pradeep For Class 11
 - Fact-Checking eBook Content of Physics Ncert Solutions Pradeep For Class 11
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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