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

Answer 4.29:

No.

Range, R = 3 km

Angle of projection, $\theta = 30°$

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

Horizontal range for the projection velocity u0, is given by the relation:

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

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

$$\frac{u_0^2}{g} = \sqrt[]{3} \qquad \ldots (i)$$

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

$$R_{max} = \frac{u_0^2}{g} \qquad \ldots (ii)$$

On comparing equations (i) and (ii), we get: $R_{max} = \sqrt[]{3} = 2 \times 1.732 = 3.46$ 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, $v = 720$ km/h = 200 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, $u = 600$ 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.

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

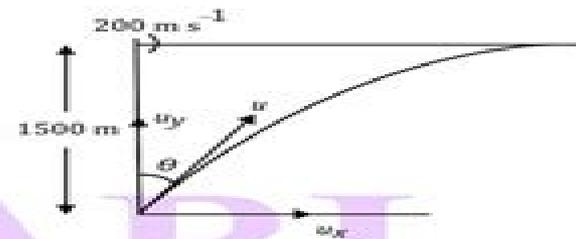$$\theta = \tan^{-1}\left(\frac{4h_m}{R}\right) = \frac{200}{600} = \frac{1}{3} = 0.33$$

$\theta = \sin^{-1}(0.33) = 19.5°$

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.

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

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

≈ 16 km

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