

Solutions
Assignment # 5
Physics 204

Q1

A ball is thrown horizontally from the top of a building 35 m high. The ball strikes the ground at a point 30 m from the base of the building. Find (a) the time the ball is in flight, (b) its initial velocity, and (c) the x and y components of velocity just before the ball strikes the ground. (2.67 s, 30 m/s, $v = 30\hat{i} - 26.2\hat{j}$)

Solution: Let $\vec{v}_0$ be the initial velocity of projection. we can write $\vec{v}_0$ as

$$\vec{v}_0 = v_{0x}\hat{i} + 0\hat{j}$$

we want to find v_{0x} ?, $v_{0y} = 0$ 35m

(a) using the equation, $y = y_0 + v_{0y}t + \frac{1}{2}gt^2$

we can write, $-35 = 0 \times t - \frac{1}{2}(9.8)t^2$
or $t^2 = \frac{70}{9.8} \Rightarrow t = 2.67\text{ s}$

(b) its initial velocity is $\rightarrow v_{0x} = \frac{30}{2.67} = 30\text{ m/s}$, $v_{0y} = 0$

(c) x-component of velocity after $t = 2.67\text{ s}$ is given by

$$v_x = v_{0x} + at = 30 + (0)(2.67) = 30\text{ m/s}$$

y-component of velocity after $t = 2.67\text{ s}$ is

$$v_y = v_{0y} + at = 0 - 9.8 \times 2.67 = -26.2\text{ m/s}$$

the velocity when the ball strikes the ground $\rightarrow \vec{v} = (30\hat{i} - 26.2\hat{j})\text{ m/s}$



Q2

A rifle is aimed horizontally at the center of a large target 200 m away. The initial speed of the bullet is 500 m/s (a) where does the bullet strike the target? (b) To hit the center of the target, the barrel must be at an angle above the line of sight. Find the angle of elevation of the barrel. (0.78 below horizontal, $\alpha = 0.22^\circ$)

Solution: (a) Rifle is aimed horizontally.

Therefore $\vec{v}_0 = v_{0x}\hat{i} + 0\hat{j} = 500\hat{i}$

using $y = y_0 + v_{0y}t + \frac{1}{2}at^2$ (1)

we get $y = 0 \times t - \frac{1}{2}(9.8)(t^2)$ $t \rightarrow$ time of flight

Also $x = 200 = 500t$, $\therefore t = \frac{200}{500} = 0.4\text{ s}$

During this time the bullet will fall a distance $\rightarrow y = -\left(\frac{1}{2}\right)(.4)^2 \times 9.8 = -0.78\text{ m}$

So the bullet will hit the target 0.78 m below the horizontal



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