

1. An airplane diving at an angle of 36.9° with the horizontal drops a bag of sand from an altitude of 800 m. The bag is observed to strike the ground 5 s after its release.

- What is the speed of the plane?
- How far does the bag travel horizontally during its fall?
- What is its velocity just before it strikes the ground?



Vert

$$\begin{aligned} V_i &= \\ V_f &= \\ \Delta y &= 800\text{m} \\ a_y &= 9.8 \frac{\text{m}}{\text{s}^2} \\ t &= 5\text{s} \end{aligned}$$

$$\Delta y = V_i t + \frac{1}{2} a t^2 \Rightarrow$$

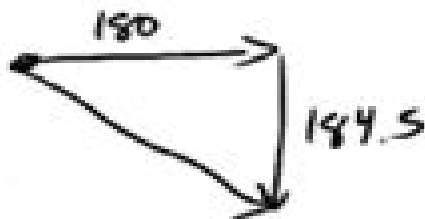
$$\begin{aligned} V_i &= \frac{\Delta y - \frac{1}{2} a t^2}{t} = \frac{800 - \frac{1}{2}(9.8)(25)}{5} \\ &= 135.5 \frac{\text{m}}{\text{s}} \end{aligned}$$



a) $\sin \theta = \frac{\text{opp}}{\text{hyp}} \Rightarrow \text{hyp} = \frac{\text{opp}}{\sin \theta} = \frac{135.5 \frac{\text{m}}{\text{s}}}{\sin(36.9^\circ)} = \boxed{226 \frac{\text{m}}{\text{s}}}$

b) Horiz
 $V_{ix} = 226 \frac{\text{m}}{\text{s}} \cos(36.9^\circ) = 180 \frac{\text{m}}{\text{s}}$
 $\Delta x = v_x t = (180 \frac{\text{m}}{\text{s}})(5\text{s}) = \boxed{902\text{m}}$

c) $V_{fx} = 180 \frac{\text{m}}{\text{s}}$ $V_{fy} = V_{iy} + a_y t = 135.5 \frac{\text{m}}{\text{s}} + 9.8(5) = 184.5$



$$V_f = \sqrt{180^2 + 184.5^2} = \boxed{258 \frac{\text{m}}{\text{s}}}$$

Physics Kinematics Problems And Solutions

SJ Ball



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