Answer on Question 49947, Physics, Mechanics - Kinematics Dynamics - An aero plane moving horizontally at $150 \mathrm{~m} / \mathrm{s}$ release a bomb at a height 500 m . The bomb hits the intended target. What was the horizontal distance of the aero plane form the largest when the bomb was released?
Solution
Time of fall is

$$
t=\sqrt{\frac{2 h}{g}}=\sqrt{\frac{2 \cdot 500}{9.8}} \approx 10 \mathrm{~s}
$$

Horizontal distance traveled during this time is

$$
s=v t=150 \cdot 10=1500 \mathrm{~m}
$$

So, answer is 1500 meters.

