Answer on Question #60297-Physics – Mechanics Relativity

Two balls of different masses are thrown vertically upward with same initial velocity. Maximum height attained by them is h1 and h2 respectively. What is h1 and h2?

Solution

They will reach the same maximum height.

That results because

$$h_{max} = \frac{v^2}{2g};$$

where v is the same vertical speed for both. And g is acceleration due to the gravity.