

Answer on Question #55372-Physics-Mechanics-Kinematics-Dynamics

Which of the following is NOT true in the experiment to determine the acceleration due to gravity by means of a simple pendulum from inaccessible height, where h is the height of the bob from the floor and H the inaccessible height

- A. The intercept on the T^2 axis for T^2 plotted against h gives the inaccessible height
- B. The graph of T^2 against h is linear
- C. The slope of T^2 plotted against h is negative

Answer

A. The intercept on the T^2 axis for T^2 plotted against h gives the inaccessible height.

The intercept of the graph on the x-axis (h) i.e. when $T^2 = 0$ gives us the inaccessible height H .

