

Name: _____

Date: _____

AP Physics 1, Per. _____

Unit 2 Homework #9

Free Fall Problems

For each of the following, a complete solution will consist of:

- a well-labeled diagram of the situation
- a list of all motion variables with givens, labeled with units and appropriate algebraic signs (+, -)
- a clear presentation by showing the equation used before producing a numerical answer

1. A body falls freely from rest on Earth.

(I will box the formula before plugging numbers in so that the relationship between the variables can be easily examined)

- a. Find its displacement from $t = 0$ to $t = 3s$.

$$\begin{array}{l}
 v_i = 0 \\
 v_f = \\
 a = -9.8m/s^2 \\
 \Delta y = \\
 t = 3s
 \end{array}
 \qquad
 \begin{array}{l}
 \Delta y = v_i t + \frac{1}{2} g t^2 \\
 \boxed{\Delta y = \frac{1}{2} g t^2} \\
 = \frac{1}{2} (-9.8) 3^2 \\
 = -44.1m
 \end{array}$$

- b. if it falls 2 xs longer (for 6 s), how much farther will it fall? *Need the relationship between t and Δy without any other variables that would be affected by increasing t . Then isolate Δy since you want to know what happens to Δy : The relationship is boxed above*

$$\Delta y = \frac{1}{2} g t^2$$

If time of fall is doubled, Δy will be increased by 4xs

- c. Find the time for it to reach a speed of 25 m/s

$$\begin{array}{l}
 v_i = 0 \\
 v_f = 25m/s \\
 a = -9.8m/s^2 \\
 \Delta y = \\
 t =
 \end{array}
 \qquad
 \begin{array}{l}
 v = v_i + g t \\
 \boxed{v = g t} \\
 25 = 9.8t \\
 t = 2.55s
 \end{array}$$

- d. Find the time to reach double the speed (50 m/s) *Need relationship between v and t without any variables that would be affected by changing the speed (see boxed equation above):*

$$v = g t$$

if final velocity is doubled, t will be increased by 2xs

- e. Find the time required for it to fall 300 m

$$\begin{array}{l}
 v_i = 0 \\
 v_f = \\
 a = -9.8m/s^2 \\
 \Delta y = -300m \\
 t =
 \end{array}
 \qquad
 \begin{array}{l}
 \Delta y = v_i t + \frac{1}{2} g t^2 \\
 \boxed{\Delta y = \frac{1}{2} g t^2} \\
 -300 = \frac{1}{2} (-9.8) t^2 \\
 t = 7.82s
 \end{array}$$

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