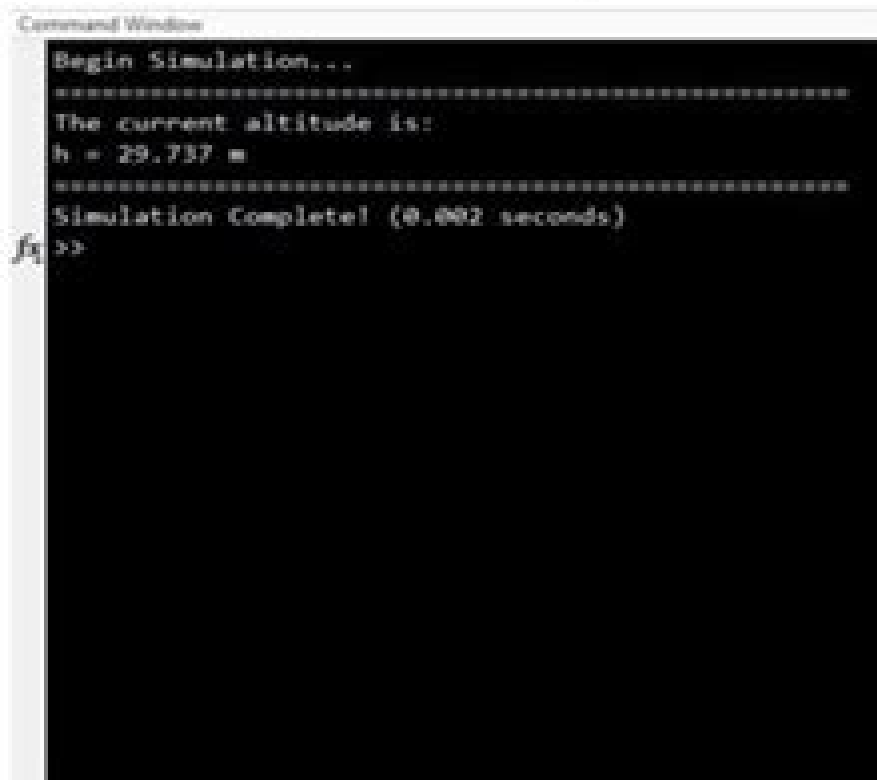


1. Altitude of an Object in Freefall

The current altitude of an object experiencing freefall at any time while neglecting air resistance is given by

$$h = h_0 + v_0 t - \frac{1}{2} g t^2 \quad (1.1)$$

where (h_0) is the object's initial altitude, (v_0) is the object's initial velocity, (g) is the standard acceleration due to gravity ($g = 9.80665 \text{ m/s}^2$), and (t) is the time of flight. Assume that $h_0 = 200 \text{ m}$, $v_0 = 10 \text{ m/s}$, and $t = 7 \text{ s}$. Write a MATLAB script that computes the current altitude of the object for the given parameters. The final altitude should be displayed on the command window, rounded to three decimal places. The command window output for this simulation can be seen in Figure 1:



```
Command Window
Begin Simulation...
=====
The current altitude is:
h = 29.737 m
=====
Simulation Complete! (0.002 seconds)
fx >>
```

Figure 1: Problem 1 Command Window Output

Save the code under the file name 'MATLAB_Experiment1.m'.

Freefall Mathematics Altitude 1 Answers

JE Gale



Freefall Mathematics Altitude 1 Answers:

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