Name and Date: Jeremy Stark 02/20/2019 ENGR297 and class # 22749 Course and Section:

Matlab Homework 5 Problem:

Statement: Homework 05

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Calculate the time for a ball to fall from a building from a given height. Enter the height of the building in meters: 100

| Height (meters) | Time (seconds) | Velocity (m/s) |
|--------------------|-------------------|-------------------|
| 100.00 | 0.00000 | 0.0000e+00 |
| 85.00 | 1.74874 | 2.6231e+01 |
| 70.00 | 2.47310 | 7.4193e+01 |
| 55.00 | 3.02891 | 1.3630e+02 |
| 40.00 | 3.49749 | 2.0985e+02 |
| 25.00 | 3.91031 | 2.9327e+02 |
| 10.00 | 4.28353 | 3.8552e+02 |