Name:

Investigation 11.1

Part 2

Table 1: Period, Amplitude, Mass, and Length Data

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| --- | --- | --- | --- | --- |
| Number of Washers | Amplitude (degrees) | String length (cm) | Time from timer (s) | Period of Pendulum (s) |
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Part 3: Analyzing the Data

a.)

b.) Create graphs as described on page 76 using your own graph paper.

Part 4: SKIP THIS PART

Part 5: Damping and energy loss

Table 2: Damping Data

|  |  |  |
| --- | --- | --- |
| Mass (washers) | String Length (cm) | Time to decay from 30 degrees to 10 degrees (sec) |
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a.) Plot two graphs on your own graph paper that show how the damping times changes with mass and string length.