
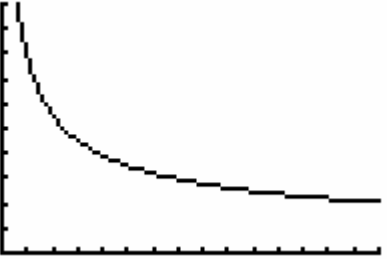
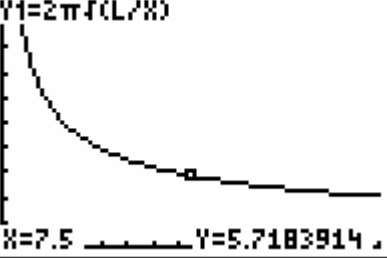
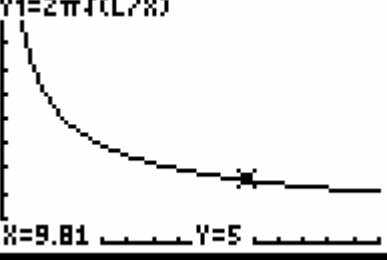


Holt Physics Chapter 11 Pendulum Technology Guide

<p>1. Follow the instructions in Appendix B in the Holt Physics textbook to download the VIB program to your TI-83/84 calculator.</p>	
<p>2. Press the [PRGM] key and arrow down, ▼, (or to move quickly to the programs beginning with “V,” press [ALPHA]V) to the VIB program.</p>	<pre> EDIT NEW ↑VAPRESS VIB :WRK </pre>
<p>3. Press [ENTER] twice.</p>	<pre> prgmVIB PERIOD?■ </pre>
<p>4. Press [5] to enter 5 s for the period of the pendulum.</p>	<pre> prgmVIB PERIOD?5■ </pre>
<p>5. Press [ENTER] to view a graph of temperature vs. energy absorbed.</p>	
<p>6. If the graph is not visible, or if you wish to change the window settings, press [WINDOW].</p>	<pre> WINDOW Xmin=0 Xmax=1000 Xscl=100 Ymin=0 Ymax=100 Yscl=10 Xres=1 </pre>

7. Enter the new settings.	<pre> WINDOW Xmin=0 Xmax=15 Xscl=1 Ymin=0 Ymax=20 Yscl=2 Xres=1 </pre>
8. Press [GRAPH] to display the graph.	
9. Press [TRACE] . For a free-fall acceleration of 7.5 m/s ² , the period of this pendulum would be 5.7 s.	<pre> Y1=2π√(L/g) </pre>  <p>X=7.5 Y=5.7183914</p>
10. Press [9][.][8][1][ENTER] to confirm that the period of this pendulum is 5 s on Earth.	<pre> Y1=2π√(L/g) </pre>  <p>X=9.81 Y=5</p>
11. Press [2nd][QUIT] to end the display of the graph.	<pre> PRGMVIB PERIOD?5 █ </pre>
12. To rerun the program, press [ENTER] .	<pre> PRGMVIB PERIOD?5 PERIOD? </pre>