Answer #342

The answers for each of the questions are presented in order; shown for each case as jpeg figures are (1) the graph of $d(t)$ vs. $t$ for each of the questions and (2) the actual experimental graph of $d(t)$ vs. $t$ for each of the questions produced when I move in the appropriate manner. A video of my motion can be seen by clicking your mouse on the experimental $d(t)$ vs. $t$ graph.

**Question (a):** the answer is Video #3.
Question (b): the answer is Video #1.
Question (c): the answer is Video #6.
Question (d): the answer is Video #8.
Question (e): the answer is Video #5.

Notice that Videos #2, #4, and #7 were not correct d vs. t sequences for any of the theoretical curves given.

Question #343 is a follow-up to Question #342.
For questions and comments regarding the *Question of the Week* contact [Dr. Richard E. Berg](mailto:Dr.Richard.E.Berg@universityofmaryland.edu) by e-mail or using phone number or regular mail address given on the [Lecture-Demonstration Home Page](http://www.physics.umd.edu/lecture-demonstration).