

Physics 331 Problem 1

Due Sept. 16, 2004

Distance to Mars

In this and all Ph 331 homework assignments, you are free to use and adapt code from the course website.

Write a program that returns the distance between Earth and Mars (in kilometers) for a given day in the year 2000. Run this program to determine the distances on (1) Sept 21, 2000; (2) your birthday in 2000. Plot distance as a function of time for a six year range starting Jan 1, 1999.

Please email the following to my address *kankel@solar.physics.montana.edu*:

1. The distances on each of the two days.
2. A graph of distance as a function of time (JPEG file).
3. A copy of the program you wrote.
4. A copy of the command(s) used to run your program.