Homework 2

Computational Physics

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1. D.) The first command is division resulting in a float when appropriate. The second is a modulous giving you the remainder following integer division. The third command is integer division that floors the result of float division.

E.) \*\* raises the first number to the power of the second number. In the first one the negative is evaluated after the power function. In the second it is evaluated as part the power function. -(1\*1) vs (-1 \* -1)

1. The result went all the way out to the 15th decimal place value in scientific notation at 10^-17. This tells me it is using double-precision.
2. M=((y\*\*2)\*\*0.5)
3. c. Day: 35860km, 90min:280km, 45min: -2181km (from earth’s surface, inside earth)

d.