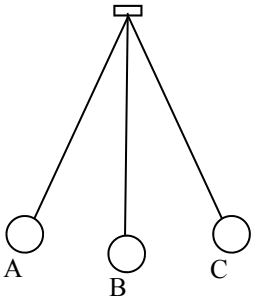
Name: _____

Period:_____

HW—11:1— Harmonic Motion
Mr. Murray, IPC
www.aisd.net/smurray

Assigned: Thurs., 3/15/04
Due: Mon., 3/19/04



Using the pendulum at the left, answer these questions.

1) If the pendulum starts at C, where does the cycle have to end?

2) Between what two letters is the amplitude take?

3) If it takes 1 second to go from A to C, what is the period of the pendulum?

Linear or Harmonic Motion?

A person standing up and sitting down over and over?

A tire rolling round and round?

Ocean waves?

Earth's orbit around the moon?

Walking to the store and back?

Question on back

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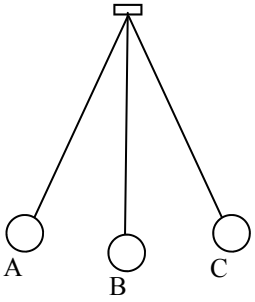

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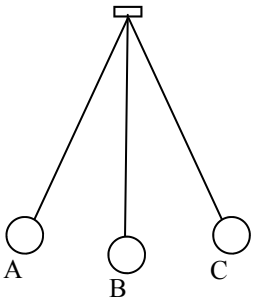

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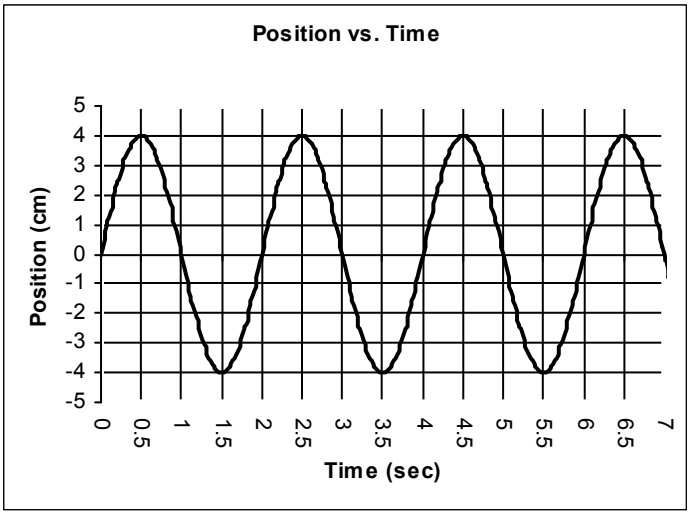
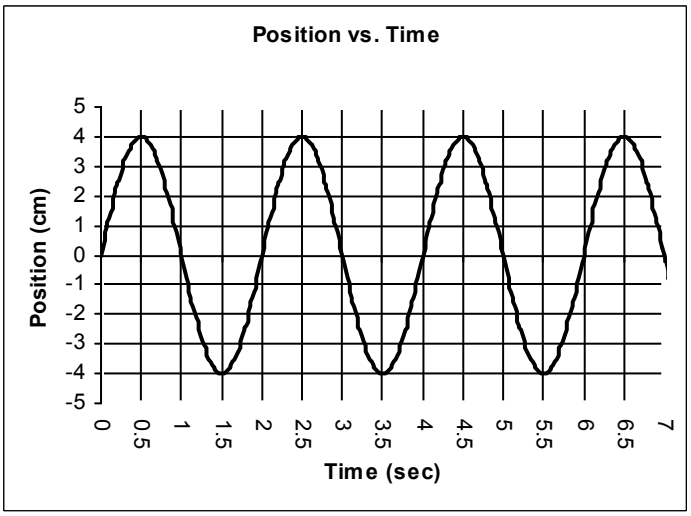


1) Mark one cycle of the harmonic motion on the graph.
2) If you start at 1.5 sec, when does the 1st cycle end?
3) What is the period of the graph?
4) What is the frequency of the graph?
5) What is the amplitude of the graph?

HW11:1



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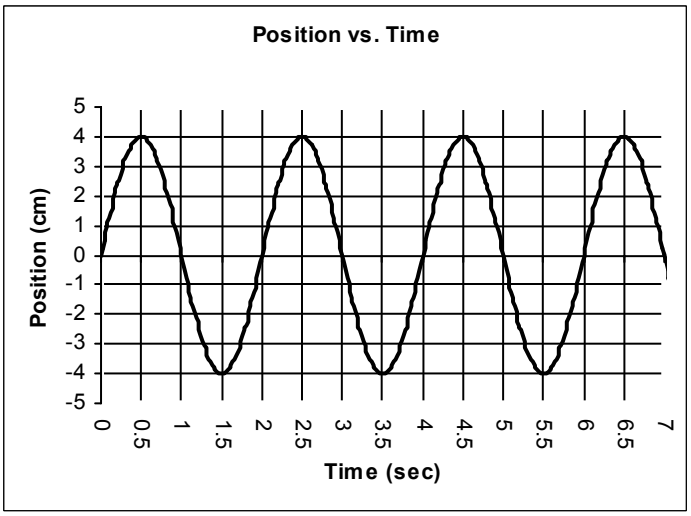

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