PHY121 Summer 2018

Pre-work for Wednesday 6/6

- 1. If you double the amplitude of a harmonic oscillator, what happens to its period? What about the maximum speed?
- 2. If you double the spring constant of a harmonic oscillator, what happens to its frequency?
- 3. A magnesium atom (\approx 24 proton masses) in a crystal is measured to oscillate with a frequency of 10^13 Hz. What is the effective spring constant of the forces holding the atom in the crystal?