Gurjeet Longia

February 7, 2019

Question:

1. The kinetic energy grows linearly of a collection of N particles with N assuming each particle has the same energy. This is because it grows the same amount in each step.
2. The potential energy grows exponentially of a collection of N equally spaced charged particles. This is because the rate of the change is proportional to the function.
3. The kinetic energy seems to scale linearly as seen by the graphs, there is a straight line in the graph for the kinetic energy. The potential energy does seem to grow quadratically when the time is measured.