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0.1 test

this is just to test weather or not i did the setup correctly $\ddot{\text{a}}\ddot{\text{u}}\text{s}$

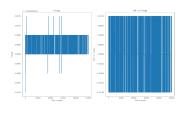
Chapter 1

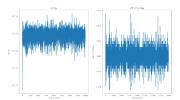
Milestone 4

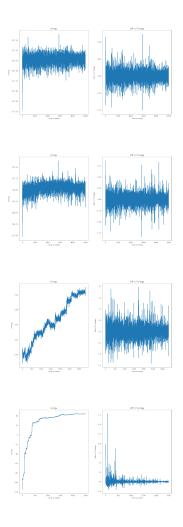
1.1 Lenard Jones Derivation

```
[4]:  \begin{array}{c} \text{import sympy as sp} \\ \text{import warnings} \\ \text{warnings.filterwarnings('ignore')} \\ \text{sp.init\_printing()} \\ \text{eps} = \text{sp.Symbol("e")} \\ \text{sig} = \text{sp.Symbol("s")} \\ \text{rad} = \text{sp.Symbol("r")} \\ \text{energyRad} = 4 * \text{eps} * ((\text{sig/rad})**12 - (\text{sig/rad})**6) \\ \text{energyRad.diff(rad)} \\ \end{array}
```

1.2 Different Time Steps







1.3 Simulation Snapshots



