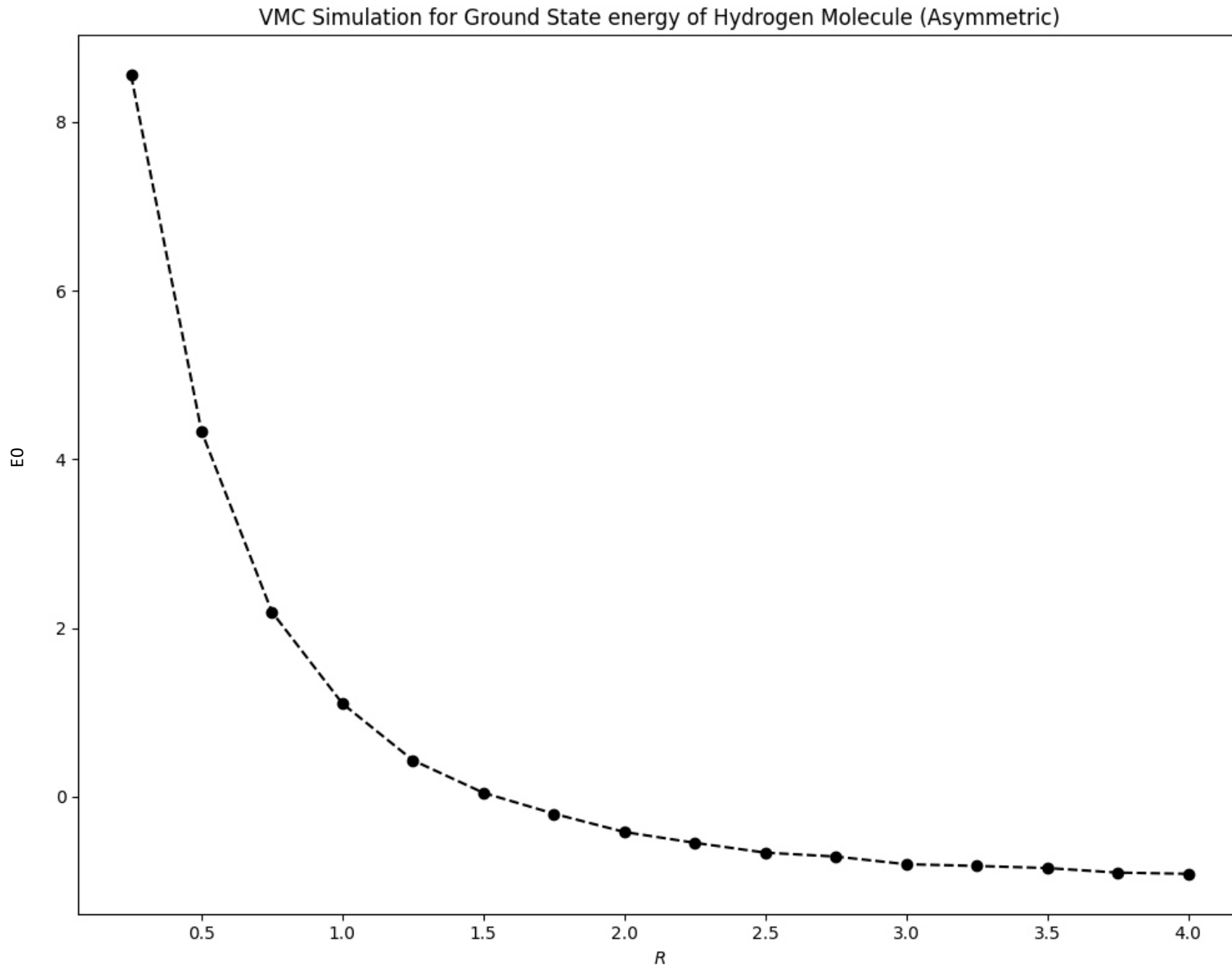


# Plot for Exercise 2: Question 7: Hydrogen Molecule (Antisymmetric) Energy vs Interproton Distance (R)



# Mean distance between electrons ( $r_{12}$ ) vs Interproton Distance (R)

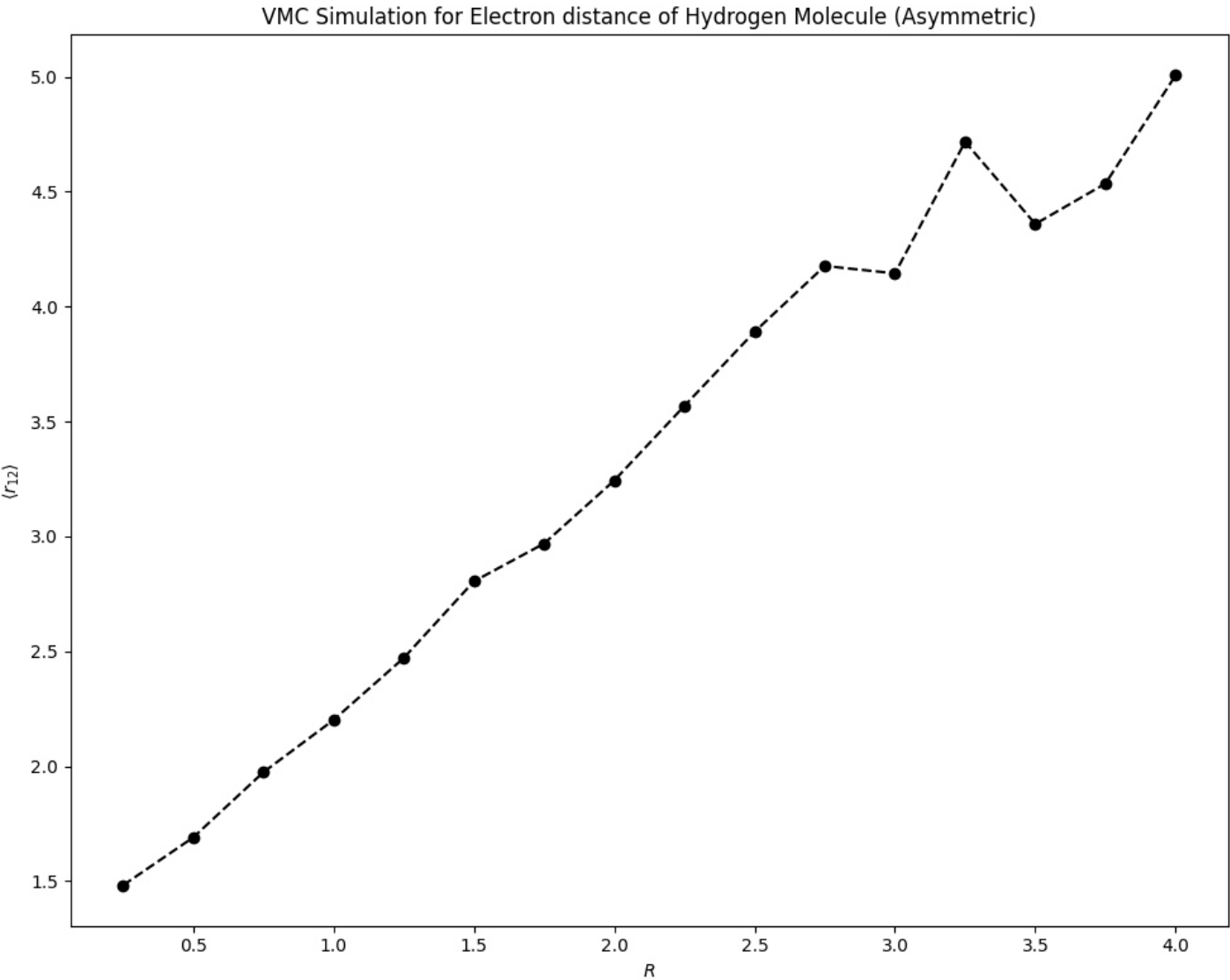


Table 2: Hydrogen Molecule:  
Asymmetric

| R    | $r_{12}$ |
|------|----------|
| 0.25 | 1.4818   |
| 0.50 | 1.6900   |
| 0.75 | 1.9738   |
| 1.00 | 2.2012   |
| 1.25 | 2.4710   |
| 1.50 | 2.8044   |
| 1.75 | 2.9689   |
| 2.00 | 3.2432   |
| 2.25 | 3.5680   |
| 2.50 | 3.8905   |
| 2.75 | 4.1770   |
| 3.00 | 4.1447   |
| 3.25 | 4.7172   |
| 3.50 | 4.3595   |
| 3.75 | 4.5356   |
| 4.00 | 5.0069   |