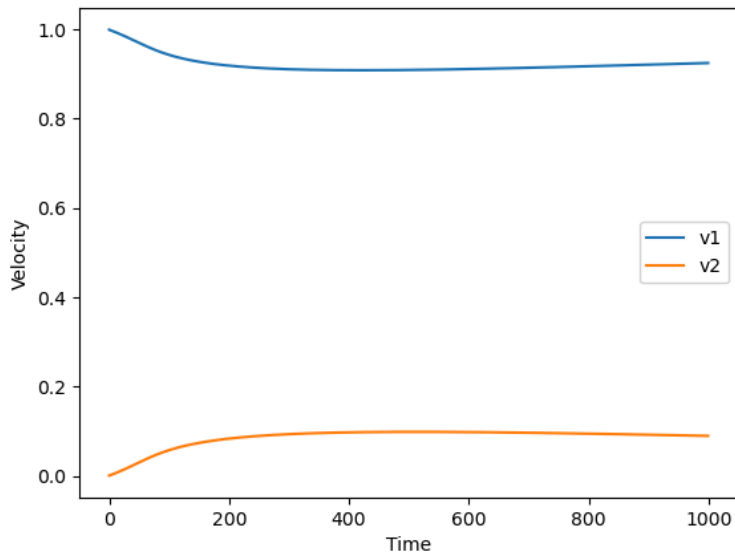
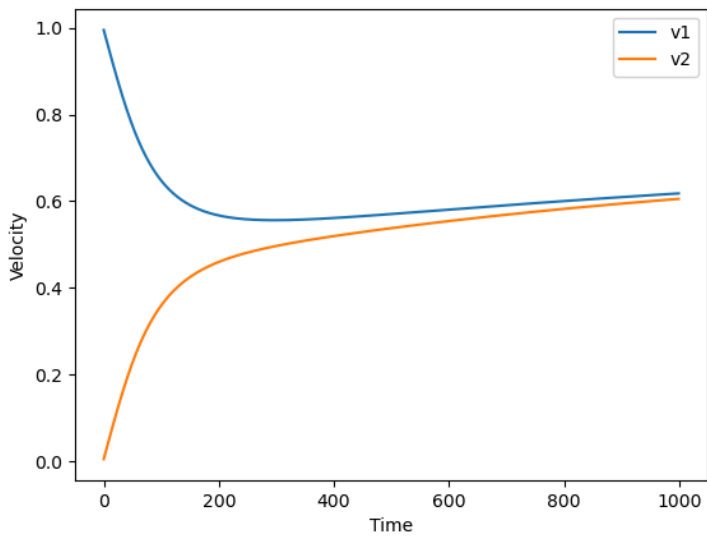


### Problem 1:

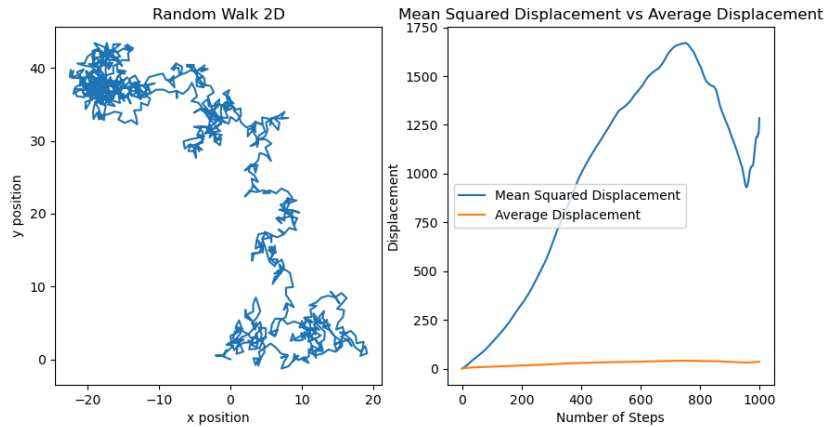


Small alpha and beta.



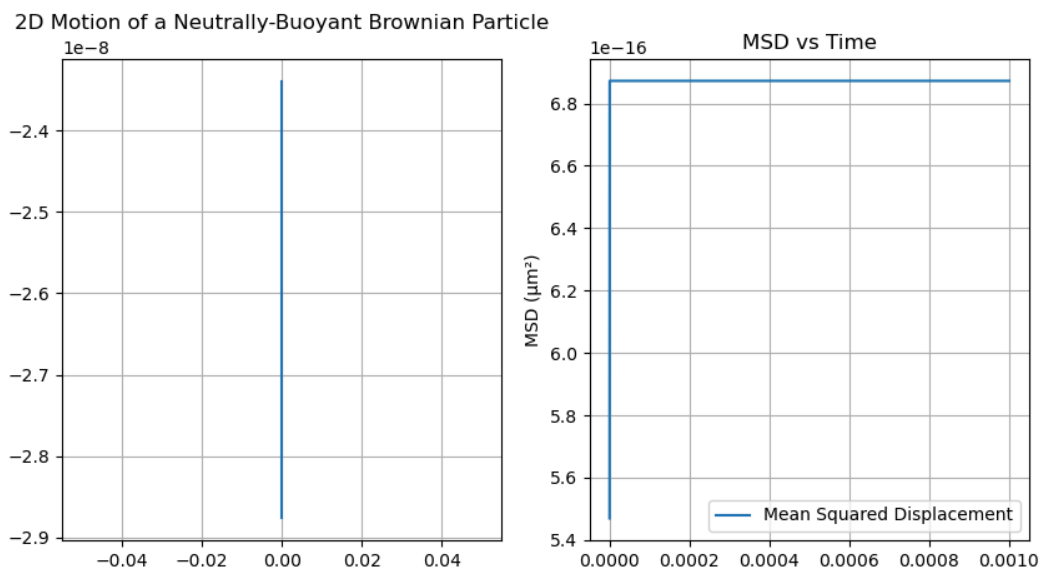
As large alpha and beta, these 2 velocities got closer.

## Problem 2:



The answer agrees with what we have discussed in class, as the Mean Squared Displacement increases linearly with the number of steps taken and the Average Displacement stays relatively constant.

## Problem 3:



My graph is weird as it does not appear to be quadratic at all but just a linear increase through and through. The motion of the particle is also linear as well which is very weird. Of course, this does not agree with what we discussed in class. I'm sure I did something wrong here but I don't know what I have done wrong so I will try to ask you later. Thank you!