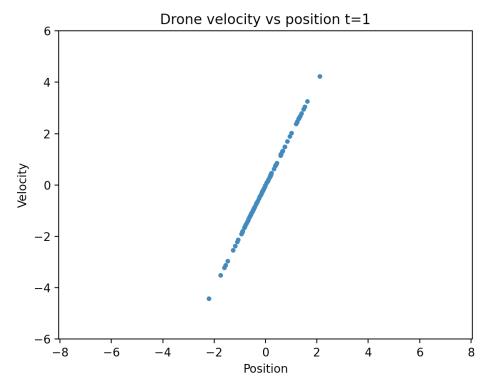
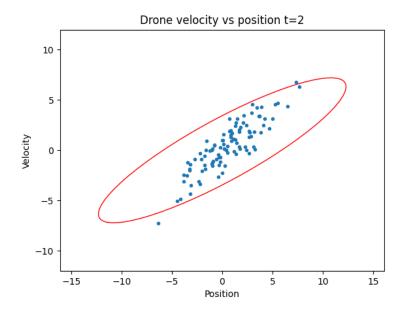


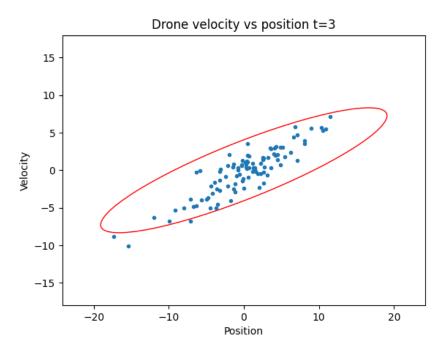
Fig. 1 Questions 1.1-1.3 Solving for Covariance and p(x|z)



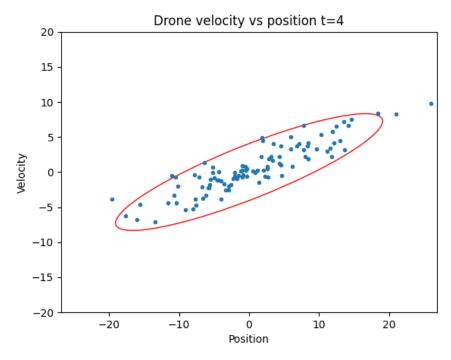
Fig, 2 Drone Velocity vs Position at t=1



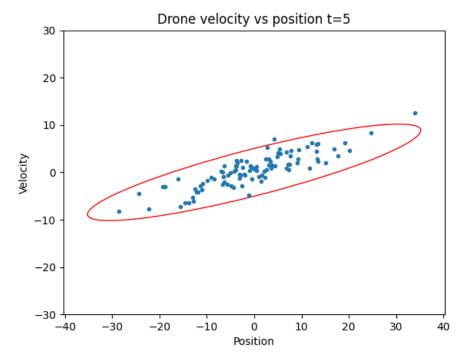
Fig, 3 Drone Velocity vs Position at t=2



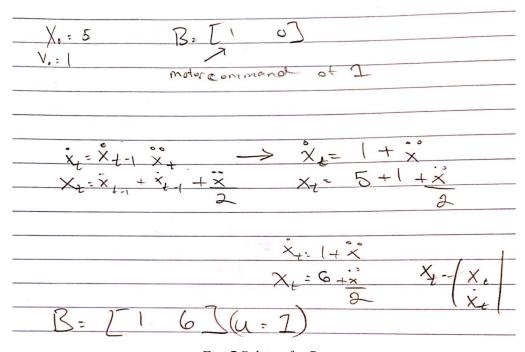
Fig, 4 Drone Velocity vs Position at t=4



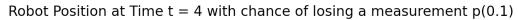
Fig, 5 Drone Velocity vs Position at t=4



Fig, 6 Drone Velocity vs Position at t=5



Fig, 7 Solving for B



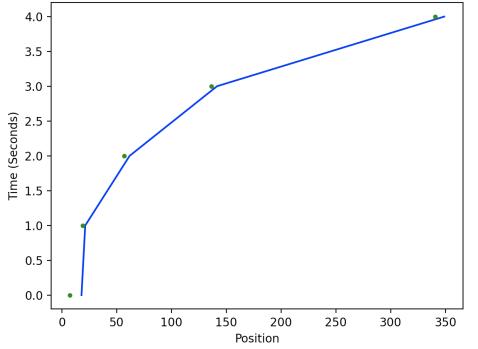


Fig. 8 Plotting the kalman filter with a prob of losing measurement p(0.1)

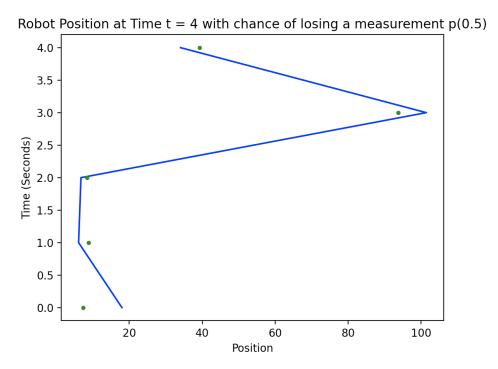


Fig. 8 Plotting the kalman filter with a prob of losing measurement p(0.5)

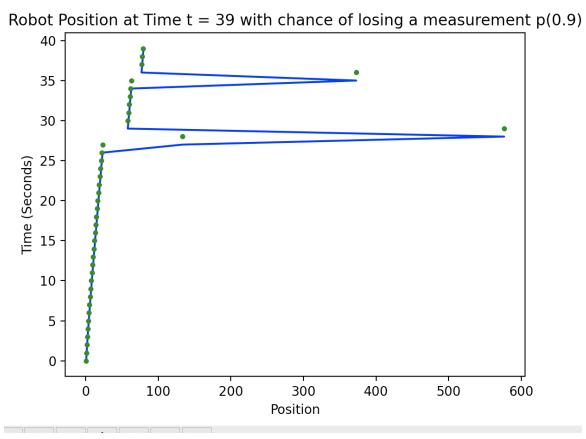


Fig. 10 Plotting the kalman filter with a prob of losing measurement p(0.9)