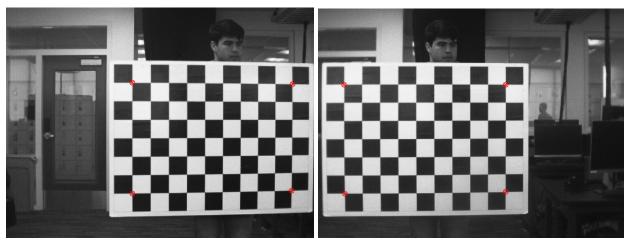
Homework 4

3D Reconstruction and Trajectory Estimation

Task 1



Left_frame_3d_points:

[[-2.173519 , -9.275814 , 171.61868] [32.54033 , -9.433923 , 175.16077] [-2.1222794 , 14.016801 , 172.22374] [32.568867 , 13.82157 , 175.63872]]

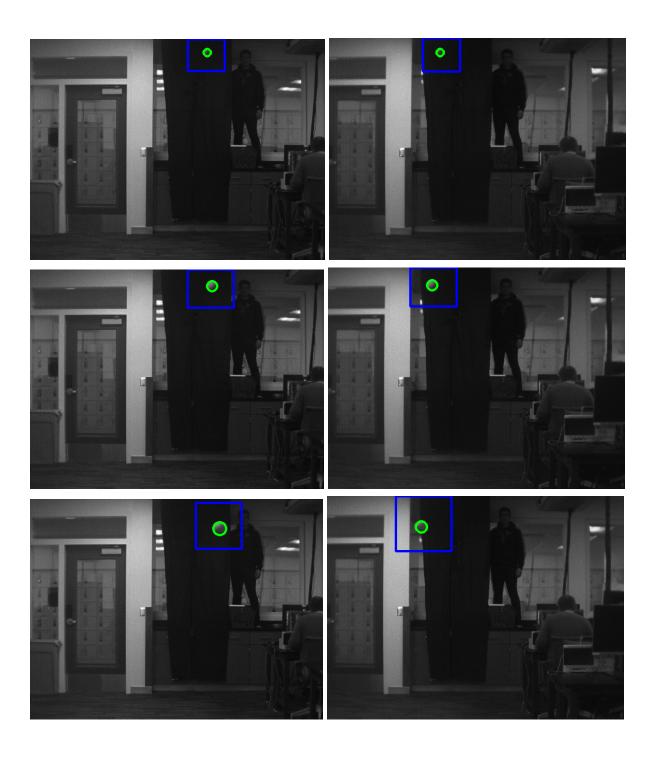
right_frame_3d_points:

[[-22.52054 , -9.270955 , 171.61868] [12.193308 , -9.461161 , 175.16077] [-22.4693 , 14.00596 , 172.22374] [12.221845 , 13.80736 , 175.63872]]

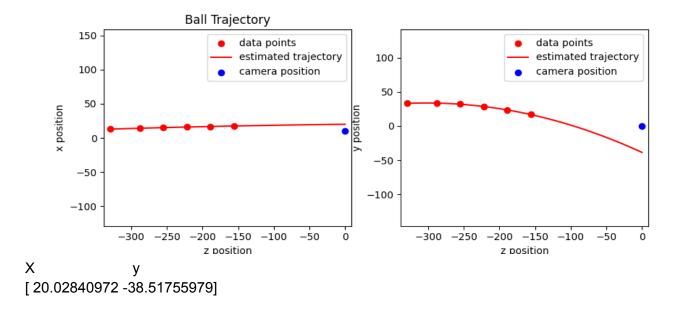
Points seem right as they are shifted about 20 inches in the x direction from eachother.

Task 2





Task 3



I used a polynomial fit of second order to estimate the trajectory of the ball.